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HANDBOOK FOR UCSD

SC9 SCATHA

AURORAL PARTICLES EXPERIMENT

UNIVERSITY OF CALIFORNIA SAN DIEGO

La Jolla, California

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HANDBOOK FOR UCSD SC9 SCATHA AURORAL PARTICLES EXPERIMENT

University of California at San Diego La Jolla, California

Center for Astrophysics and Space Sciences

Space Physics Laboratory

Under

UCSD/AF SCATHA F04701-77-C-0062 September 1978 (1st Edition) August 1980 (Revised Edition)



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HANDBOOK FOR UCSD SC9 SCATHA AURORAL PARTICLES EXPERIMENT

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1.0 INTRODUCTION

1.1 OBJECTIVES

The primary objective of this handbook is to provide a convenient source of information for the UCSD SC9 Auroral Particles Experiment. The expected end users of this document are scientists, programmers, and operators.

1.2 ACKNOWLEDGEMENTS

The UCSD/SC9 Auroral Particles Experiment was developed with funds provided by the National Aeronautics and Space Administration under Goddard Space Flight Center Contract Number NAS 5-21055, Office of Naval Research Contract Number N00014-76-C-0432 and Air Force Contract Number F4701-77-C-0062.

1.3 SCOPE

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The scope of this handbook is all of the scientific information related to the operation of the UCSD/SCATHA SC9 Auroral Particles Experiment

2.0 SUMMARY

2.1 SCIENTIFIC OBJECTIVES

The general objective of the experiment is the determination of magnetospheric processes in containing and accelerating charged particles near the earth. Of particular interest are those particles which are deposited into the upper atmosphere to produce aurorae. Geosynchronous orbits are well suited for these measurements as they are, much of the time, situated equatorially on magnetic field lines which connect with the earth in the auroral latitudes. Hence comparison with simultaneous ground base observations will be important.

Two pairs of ion and electron detectors are scanned orthogonally to make determinations of pitch angle distributions and to investigate plasma instabilities and wave-particle interactions. The magnetosphere constitutes a plasma of low density unobtainable in the laboratory.

Measurements made by experiments on ATS satellites in the past indicate also that near the midnight sector considerable changes in particle fluxes occur which coincide with geomagnetic substorm observations on the ground. Substorm Morphology is a subject of continuing interest and it is felt that the SC9 experiment can contribute a great deal to an understanding of it.

The modes of penetration of solar wind particles into the magnetosphere and their flow properties will also be studied. Times of enhanced solar activity will be of great interest.

SPACECRAFT CHARGING

The work done in analyzing data from the UCSD detector on ATS-5 (launched into geosynchronous orbit in August 1969) showed conclusively that a spacecraft at synchronous orbit can develop electrostatic charges of thousands of volts both between the spacecraft and the ambient plasma, and between parts of the spacecraft itself. Since then several types of synchronous orbitors have experienced anomolous effects in operation which have been traced to charging. These effects include spurious commands, degradation of amplifiers and solar cells, and in at least one case, complete loss of an Air Force Satellite. Some of the programs so affected are ATS, 777, INTELSAT, and COMSAT.

Unfortunately most of the affected spacecraft carry no plasma diagnostic equipment. Therefore analyses of

suspected charging effects were conducted by comparing times of occurence with ground-based geomagnetic observations and other satellite measurements (notably ATS-5). It is not surprising that no general one-to-one correspondences have been found between spacecraft anomalies and geomagnetic activity even though the environment-spacecraft interaction is strongly indicated.

The launch of ATS-6 in the Summer of 1974 helped this situation by extending the range of analyzed energies downward from 50 ev (ATS-5) to less than 1 ev. This permits direct observation of the low-energy secondaries and photo-electrons which have been theoretically shown to be important in charge balance. The addition of mechanically rotating detectors on ATS-6 has also permitted viewing fluxes narrowly collimated along the magnetic field line (this was impossible on ATS-5). Surprisingly, fluxes more than 100 times the flux perpendicular to the field have been seen regularly. Note that ATS-6 carries no electric field measuring devices, no magnetic search coils and no mass spectrometer.

As the effects of spacecraft charging have become known, investigation by several agencies realized that no good model existed to predict these effects, and that no spacecraft was planned to be flown at synchronous altitude with instrumentation necessary to provide enough information on which to build adequate models. Thus the Scatha program evolved.

COMMUNICATIONS

In addition to the important study of spacecraft charging, the instrument payload on SCATHA will be admirably suited to studying the naturally occurring and artificially stimulated wave particle interaction in the magnetosphere plasma at synchronous altitude under a wide variety of conditions of the local plasma. An improved understanding of the interaction between the electromagnetic waves and the particle constituents in the plasma is thought to extend our understanding of the origin of the particles and their injection, acceleration, transport, and loss processes and to assess the feasibility of modifying the natural plasma composition or the wave characteristics

- 1) for communication purposes,
- 2) to precipitate or enhance trapping of energetic particles in order to modify the lower ionosphere.
- 3) as a technique of further investigation of

geophysical processes.

In all of these objectives and goals for SCATHA, the UCSD Auroral Particles Detectors play a key role. While the true value of SCATHA is in its coordinated set of instruments, it would be no exageration to say that the UCSD SC9 Auroral Particles Experiment is the single most valuable.

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2.2 GENERAL INFORMATION

Spacecraft - The P78-2 (SCATHA) spacecraft is a spinning satellite that will be placed in a near synchronous, near equatorial earth orbit from the Eastern Test Range by a Delta 2914 in January 1979. The satellite houses, protects and supports thirteen scientific and engineering experiments. It spins about an axis in the orbit plane and normal to the sunline. The satellite is controlled by the Air Force Satellite Control Facility (AFSCF) and communicates directly with remote tracking stations in New Hampshire, the Indian Ocean, Guam, Hawaii and at Vandenberg AFB. The mission is planned for a one year duration and the Space Vehicle is provided with sufficient consummables for two years. Actual lifetime of the satellite will probably be limited by survival of electronic equipment in the ionizing radiation environment.

Satellite Configuration - the body of the satellite has a cylindrical shape approximately 1.75 meters in both length and diameter. On orbit seven experiment booms are deployed. The final configuration is shown in Figure 2.2-1. In addition to the booms antennna hardware and some instrument protrusions alter the basic cylindrical geometry.

Most of the Spacecraft and Payload equipment is mounted in the central, bellyband portion of the cylinder, instrument apertures, test surfaces, and experiment are located in this region. The boom booms arrangement isolates sensitive instruments from Space Vehicle influences and provides clear fields-of-view for experiments sensitive to low energy particles or contamination. The bellyband is covered with access panels coated to meet requirements of the experiments and the thermal control subsystem. Two solar arrays encircle the cylinder, one forward and one aft of the bellyband. The apogee insertion motor (AIM) is housed in a central tube. A tripod mounted on the central tube supports the forward communications antenna mast and a spider structure that in turn supports equipment located at the forward end.

Materials - Special lightweight materials are used in the spacecraft structure because the P78-2 orbit and payload are near the maximum capability of the Delta 2914 launch vehicle. The center tube is made of magnesium. The aft equipment deck is aluminum honeycomb. The forward deck is an aluminum beam structure. The solar array substrates are aluminum core honeycomb with a fiberglass outer face and an aluminum

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Figure 2.2-1 SCATHA SPACE VEHICLE

arrays is mostly reradiated to space since the emissivity of the outer surface of the arrays is much higher than that of the inner face. The bellyband access panels, covered with second surface mirrors and thermal control paints, run cool in the sun light and function as effective radiators of waste energy form the deck mounted equipment. Equipment at the ends of the spacecraft is kept warm by radiation from the deck mounted equipment. To make this approach effective rejection of heat by the end surfaces has been minimized. The thermal design contains special features to accommodate the following aspects of the mission and payloads.

- 1. The solar arrays are isolated from the equipment sections to prevent excessive radiative cooling during eclipse periods.
- 2. Some payloads and electric heaters are turned on in the transfer orbit to limit cooling of the spacecraft during this period.
- 3. A few components with low operating temperatures are isolated from spacecraft heat sources and radiatively coupled to the external environment.
- 4. Critical components such as batteries, the AIM and hydrazine rocket subsystem tanks, lines and valves are electrically heated.
- 5. The AIM is a large heat source during its burn and subsequently until is is jettisoned. The insulation which protects the satellite from this heat source also prevents significant heat rejection through the aft central cavity during the mission operations period.
- 6. The Rapid Scan Particle Detector (SC5) view cavity is pointed normally to the sunline. The walls of the cavity are radiatively isolated from the equipment compartments to prevent excessive heat loss through this cavity.

Electrical Power - 291 watts of power for spacecraft and payload functions are obtained from two solar arrays. The arrays are basically cylindrical with some irregularities in configuration to provide special surfaces surrounding instrument apertures and test samples. The projected area of each array is approximately 15 square feet averaged over a complete satellite spin rotation. The spacecraft and experiment electrical loads are supplied by the array except when those loads exceed the array capability. At such times

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three Nickel Cadmium batteries supply the additional power. In particular, the batteries supply the entire load during boost phase and eclipse operation. When the array capability exceeds the loads the batteries are charged. Any excess power is dissipated in resistive radiations.

The high sensitivity spectrum analyzers in payload SC1 can be commanded to operate from a separate battery if required to do so to achieve suitable isolation from electromagnetic interference.

Data System - The basic data rate from spacecraft and payloads is 8192 bits per second. This data can be transmitted in real time or tape recorded for later transmission. Data transmission in the tape playback mode takes place at 65536 bits per second. Each of the two tape recorders has a 12 hour capacity. The normal procedure is to record on one tape recorder until it is full. The other recorder, previously filled, is played back during periodic ground contacts.

In addition to the 8192 bps data stream there is a 512 bps channel and a broadband channel. The 512 bps channel contains critical spacecraft and payload information that also appears in the 8192 bps data. The 512 bps and 8192 bps channels are not used simultaneously. The broadband channel provides frequency response up to 5 KHZ and can be used in a number of different modes to handle analog data from one or more experiments.

At any time the use of a particular data mode depends on the capability of a tracking station to close the appropriate telemetry link and the availability of that station to support the mission. The spacecraft has the capability at all times in the final orbit to close some telemetry link with the system of ground stations.

Data Transmission - Real time or recorded data are transmitted to the AFSCF ground stations by an S-Band downlink. Either of two redundant transmitters may be used with any of three antennas in this link. The transmitter output is 10.5 watts. The carrier is modulated with a 1.024 MHZ PSK (phase shift keyed) subcarrier. The 1.024 MHZ subcarrier can be used alone or summed with either a 1.7 MHZ PSK subcarrier or a 1.7 MHZ FM subcarrier.

Omni antennas, mounted at both ends of the spacecraft, provide full spherical coverage. Each of these antennas consists of crossed flat dipoles over a truncated, slotted cone. The dipoles are fed in quadrature. The third antenna is a radial array mounted on the same mast

as the forward omni. This antenna consists of two crossed dipoles over truncated, slotted cones, placed back-to-back. These dipoles are fed in parallel and in phase to radiate a toroidal pattern coaxial with the vehicle spin axis. Annular ring resonant cavity chokes are used to narrow the beam from this antenna. The radial array is used for data transmissin only, while the omnis are used for command reception as well.

Command and Timing - The command system is fully redundant. Two omni antennas, one at each end of the spacecraft, feed either of two strings of receiver-demodulator, decoder and command distribution units. The system accepts commands from the AFSCF-SGLS (Space-Ground Link Subsystem). The maximum command rate is one per second. Latching and momentary, high current (relay driver) and low current (logic level), contact closure and serial digital commands are provided to payloads and spacecraft subsystems. Timing

signals ranging in frequency from 2^{-8} Hz to 2^{18} Hz are distributed. These signals are generated from a basic oscillator output that is initially accurate to plus or minus 1 ppm and drifts less than 0.01 ppm/day.

Attitude Control and Determination - Spacecraft attitude is determined from the outputs of four digital sun sensors and two steerable horizon crossing indicators. These data are processed on the ground and control actions are directed by uplink command. Two rocket engine modules provide thrust for precessing the spin axis, controlling the spin rate and imparting velocity increments for orbit adjustment. Each module consists of one 6.67 pound thrust and three 0.238 pound thrust hydrazine rocket engines. Two oil filled nutation dampers provide angle damping. In the final spacecraft configuration, with all booms deployed and the satellite spinning at one RPM, the damping time constant is 8 hours.

The Orbit - The satellite is placed in a 100 by 23100 nautical mile transfer orbit by the Delta 2914 launch vehicle. This orbit is inclined 28.77 degrees to the equatorial plane. At apogee on the fourth revolution the satellite performs a combined maneuver raising perigee altitude to 15038 nautical miles and reducing the inclination to 8.3 degrees. The final orbit is adjusted to provide a slow easterly drift of the satellite ground track, typically 6 degrees per day, (Figure 2.2-2).

The spatial relationships between the Earth, its magnetosphere and the satellite orbit are shown qualitatively in Figure 2.2-3. On March 20, the fifty-fifth day of the mission, the satellite orbit

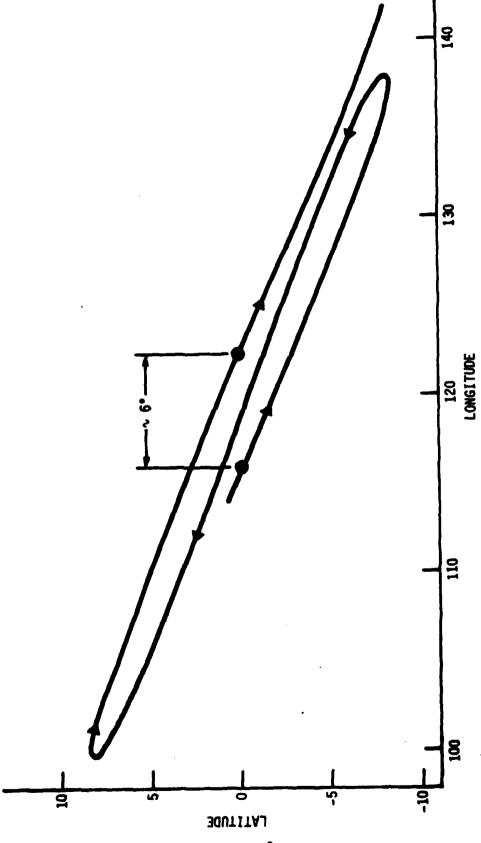


Figure 2.2-2 TYPICAL GROUND TRACK DURING FINAL ORBIT

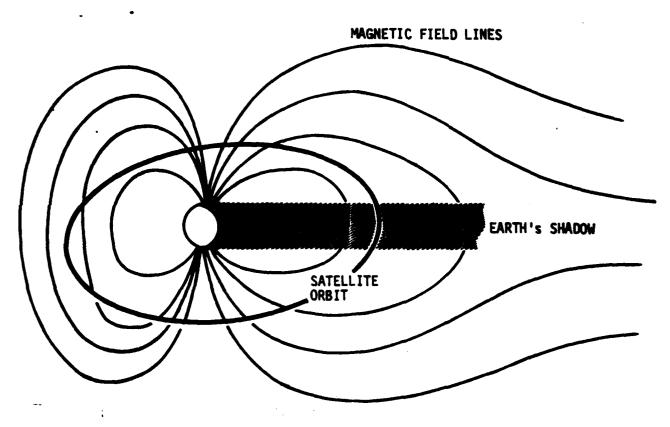


Figure 2.2-3
P78-2 ORBIT AND THE MAGNETOSPHERE

begins to intersect the Earth's shadow (Figure 2.2-4'). This spring eclipse season lasts forty-four days with a maximum eclipse duration of seventy-one minutes. second eclipse season is encountered in the fall. NOTE: See Appendices for list of eclipse times. Operations - Science activity on P78-2 is usually limited by ground data handling capacity. In principle the satellite could support 24 hours each day of narrow band activity and up to ten-hours of broadband activity. The total tape recorder capacity is 24 hours of data so to support full time activity the tape recorders would need to be completely played back once a day. The AFSCF controls many other satellites so it may not always be able to provide P78-2 with the contact time desired to playback the recorders and support the broadband activity too. When contact time is available experiment operation is limited by spacecraft data handling capabilities. An exception to this occurs on the days of the longest eclipses. At those times broadband data transmission and operation of the electron and ion guns is restricted to avoid exceeding an 80% discharge of the batteries.

The mission sequence (see Figure 2.2-5), following orbit insertion and ejection of the insertion motor, calls for adjustment of the orbit to achieve a slow eastward drift of the ground track. The satellite spin axis is then oriented normal to the sunline. This orientation is essential to satisfactory operation of the scientific payload as well as operation of the spacecraft power subsystem. The spin axis is precessed throughout the mission at approximately one week intervals to maintain normality to the sunline. the satellite is properly oriented booms are deployed for the thermal electron (SC6), the spacecraft sheath fields (SC2), the magnetic field (SC11) and the RF fields (SC1) experiments. The payloads are checked out individually and in combination during the next few days and then begin normal operation. Exceptions are the electron and ion guns (SC4) and the electric fields (SC10) experiment.

The inherent danger of electron and ion gun operation for the electron multiplier type of detectors used in many of the payloads requires special operational precautions. For this reason initial gun operations do not start for at least three weeks. The first eclipse season may begin before the guns are fully checked out. Whether or not checkout is complete, gun operation will be suspended for ten days beginning shortly before the first eclipse. Checkout of the guns will be completed, if is has not previously been finished, during the remainder of the eclipse season. The two 50 meter antennas deployed for the electric field experiment

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Figure 2.2-4 SCATHA ORBIT AND EARTH VIEWED FROM SUN

FALL ECLIPSE SEASON BEGINS SEPT 23 Ĭ 8 APRIL 8 .9 R MARCH 8 8 8 FEBRUMRY જી 2 m ٧! •• 25/26/27/28/29/30/31 JANUARY 4 ব ECLIPSE OPERATIONS MITHOUT GUNS LONG DIPOLE EXTENSION (METERS) ECLIPSE OPERATIONS WITH GUNS OPERATIONS WITHOUT GUNS EXPERIMENT CHECKOUT NORMAL OPERATIONS ATTITUDE MANEUVER BOOM DEPLOYMENT SPIN RATE (RFII) SPRING ECLIPSE GUN CHECKOUT TRIM BURN AIM BURN

A SECTION OF STREET

APOGEE 23100 n m[†]
PERIGEE 100 n m[†]
PERIGEE 100 n m[†]
INCLINATION 27.4° 8.3°
PERIOD 12.86 hr 23.54 hr
DRIFT RATE -- 6° DAY EASTWARD

KEY PARAMETERS

Pigure 2.2-5 MISSION OPERATIONS THROUGH SPRING ECLIPSE SEASON

will significantly change the electrical configuration of the satellite. To permit baseline data to be taken by experiments sensitive to the satellite electrical configuration and to allow complete observation of effects on spacecraft dynamics, the long antennas will be deployed in steps over a period of weeks beginning 11 days into the mission. At the end of the eclipse season, ninety days into the mission, the P78-2 satellite and its varied and interactive payload begin what can be called normal operations.

TABLE 2.2-1
SUMMARY OF SPACECRAFT OPERATIONS

		IMPT. SPACECRAFT EVENTS
30	check-out; scan mode	LAUNCH 1:42 pst
31	check-out; scan mode	**************************************
32	check-out; limited data	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
33	limited data; FM mode	Aim burn (18:00); ATT change
34	limited data	
35	limited data	# 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
36	limited data	Aim Separation
37	limited data	
38	limited data	FINAL ORBIT
39	Bias Test; check-out	SC-2 Boom deploy
40	Data really begins; FM mode	
41	check-out; FM mode	SC-6 failure
42	FM mode	Initial Gun Operation
43	on	
44	on	Gun On
45	on	Gun On
45	on	Gun On
47	on	Gun on; ATT maneuver (?) Induced Charging Event(ICE)
48	on	Transmitter trouble; XMTR1- Degraded; XMTR2 Turned ON
49	on	SC-7 failure
50	on	EMI Test
51	on	Prestorm; SC-7 failure

Table 2.2-1 cont.

		•
52	on	Spin up; Storm MP crossing; Trans. 1 diagnostics
53	on	Magnetosheath encounter; SC-11 On; SC1-4 boom deploy
54	on	Still storm
55	on	SC-6 boom deployment .
56	limited data	SC10 boom extension(10 m); T-R dumps off; 20 min passes; ATT man
57	on	20 min passes
58	on	20 min passes; SCl0,SCll data
59	on	20 min passes
60	on	
61	on	XMTR-1 check-out
52-67	limited data	
68	limited data	SC10 full boom extension
69-72	limited data	
73	limited data	Precession maneuver
74	limited data	<u> </u>
75	limited data	Enter ECLIPSE PERIOD (penumbral)
76	on	Fnter umbral eclipse period; precession maneuver
81	on, off during ATT maneuver	EDG EVENT ATT Maneuver (22:00, zulu time)
87	on	LUNAR ECLIPSE (8:00-12:00 zulu time); EDG EVENT
88	on	EDG EVENT
89	on	GUN ON; SC-2 malfunction; EDG EVENT
90	on	GUN ON
91	on	GUN ON
92	on	GUN ON; EDG EVENT

Table 2.2-1 cont.

93	on	GUN ON; EDG EVENT
94		GUN ON; ICE EVENT; EDG EVENT
94	on	(entire day)
95	on; BIAS TEST	GUN ON; ICE; EDG EVENT
110	on	ICE
111	on	GUN ON
112	on	GUN ON
113	on	GUN ON
114	on	ICE; EDG EVENT
115	on; BIAS TEST	GUN ON
116	on	GUN ON
119	on	END ECLIPSE PERIOD (umbral)
120	on	END ECLIPSE PERIOD (penumbral)
124	on	SEE check-out
125	on, off during ATT maneuver	Attitude maneuver (02:00)
132	on, off during ATT maneuver	ATT maneuver (01:00)
139	on, off during ATT maneuver	ATT maneuver (05:00)
143-1	45 on	Geos 2 conjunction period
145	on, off during ATT maneuver	Geos 2 conjunction period; ATT maneuver (04:00)
147-1	51 on	Geos 2 conjunction period
152	on; cnt not there;	Geos 2 conjunction period; GUN ON
153	on; cnt not there; off during ATT man.	Geos 2 conjunction period; GUN ON ATT maneuver (03:00)
154	on; cnt not there	Geos 2 conjunction period;
155	on; cnt not there	Geos 2 conjunction period;

Table 2.2-1 cont.

163	on, off during ATT maneuver	ATT maneuver (03:00)
173	on, off during ATT maneuver	ATT maneuver (21:00)
179	on; BIAS TEST	
184	on, off during ATT maneuver	ATT maneuver (15:00-18:30)
194	on, off during ATT maneuver	ATT maneuver (17:30-18:30)
200	on	GUN ON; EDG EVENT
201		GUN ON; EDG EVENT
202		GUN ON
208	on, off during most of ATT maneuver	ATT maneuver (22:00-24:00)
218	on, off during ATT maneuver	ATT maneuver (22:00)
228	on, off during ATT maneuver	ATT maneuver (13:00)
238	on, off during ATT maneuver	ATT maneuver (11:00-12:00)
248	on, off during ATT maneuver	ATT maneuver (14:00-18:00)
251	on	SC1-7 EMI Test
263	on	BEGIN ECLIPSE PERIOD (penumbral)
264	on	PEGIN ECLIPSE PERIOD (umbral)
268-2	73 eclipse ops. once a day	
275	on	GUN ON
278	on; BIAS TEST	
285	on	GUN ON
293	on	GUN ON
295	on	GUN ON
	18	

Table 2.2-1 cont.

		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
297	on	GUN ON
298	on	GUN ON
305	on, off during ATT maneuver	END ECLIPSE PERIOD (UMBRAL); ATT maneuver (12:00-14:00)
308	on	END ECLIPSE PERIOD (penumbral)
316	on, off during ATT maneuver	ATT maneuver (12:30-14:00)
326	on, off during ATT maneuver	ATT maneuver (14:00-16:00)
331	on, off during ATT maneuver	ATT maneuver (20:00-22:00)

#### 2.3 EXPERIMENT DESCRIPTION

#### 2.3.1 General Configuration

The UCSD/SCATHA SC9 Auroral Particles Experiment illustrated in Figure 2.3-1 has a compliment of five detectors. Two detectors, one detector of negatively charged particles and one detector of positively charged particles, are contained in each Rotating Detector Assembly (RDA). Each Rotating Detector Assembly is attached to the main housing by a shaft driven through worm gears by a stepper motor. An RDA can be rotated through some 220 degrees, thus enabling one to make measurements of the flux of charged particles at different angles. The two RDA'S rotate in planes which are orthogonal. An additional detector of positively charged particles is mounted in the main housing and is called the Fixed Detector Assembly (FDA).

Figure 2.3-2 illustrates the detector geometry while Figure 2.3-3 illustrates the nominal field of view of each detector. The UCSD/SCATHA SC9 Auroral Particles Experiment is mounted to the SCATHA Spacecraft as shown in Figure 2.3-4. Details of spaceraft orientation and mounting geometry can be found in Section 2.2.

#### 2.3.2 Charged Particle Detectors

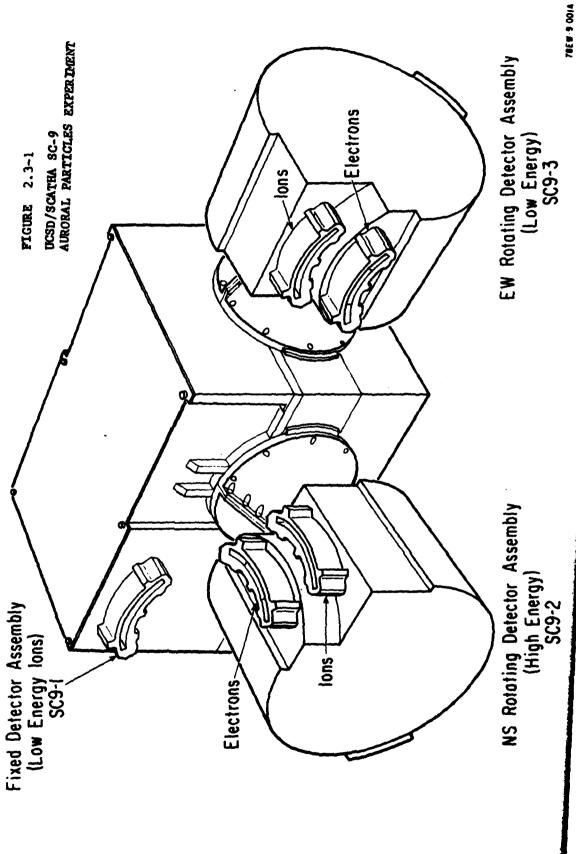
Each Detector is made from three subassemblies:

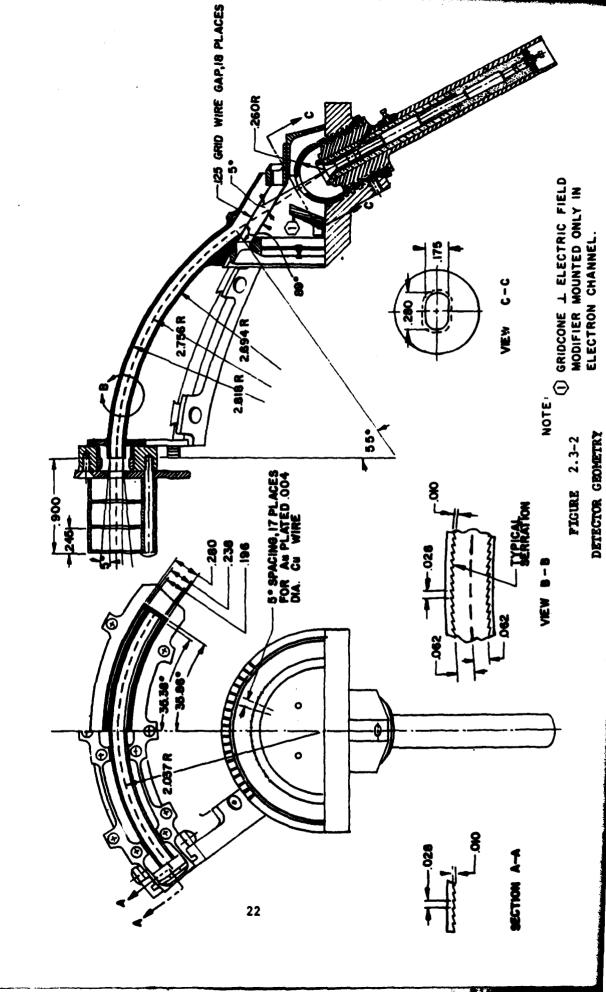
- an electrostatic curved plate energy/unit charge analyzer
- 2) an electrostatic grid structure which acts as a lens to focus those particles that have passed through the energy analyzer upon the sensor
- 3) a Bendix model 4213-PAC/WL spiraltron particle sensor with appropritate pulse electronics which counts the analyzed particles.

#### The Electrostatic Analyzer

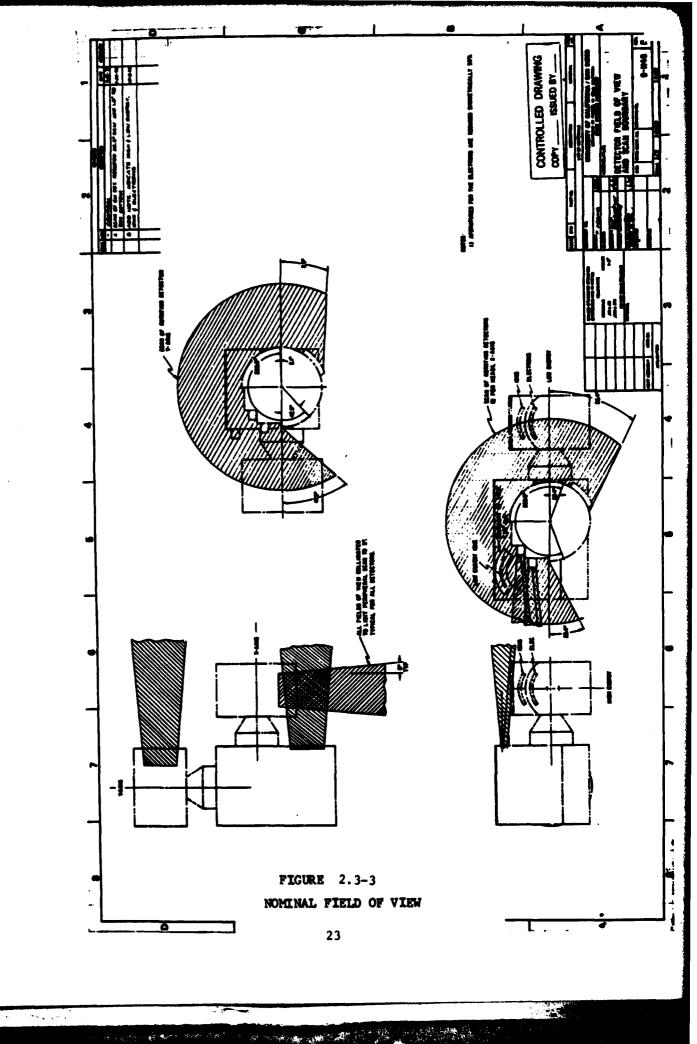
The plates of the energy analyzer are driven by a power supply that can be programmed to supply any one of 64 voltage steps. In the SCATHA configuration, one of the RDA'S is a high energy detector while other RDA and the Fixed Detector Assembly are low energy detectors. For the high energy detector, the energy range coverd by the 64 voltage steps is approximately 1 to 80,000 e.v. and for the low energy detector's the energy range is approximately 1 to 2,000 e.v.

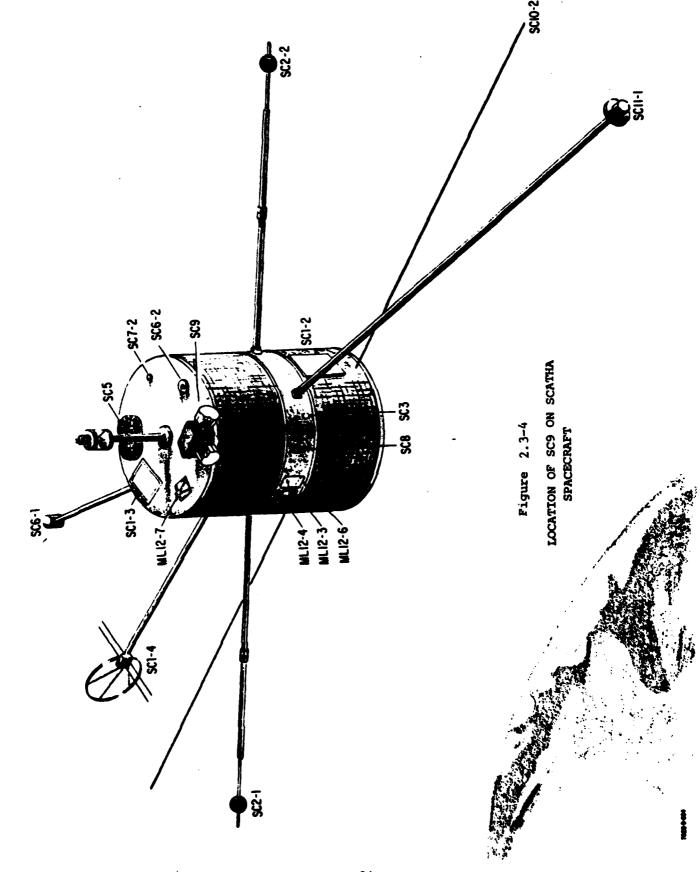
No of the second second





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For a more detailed discussion of energies see Section 2.5.2. The energy resolution DELTA E/E of the analyzer is approximately 20 per cent. The analyzer constant is approximately 11 for each type of detector.

#### The Electrostatic Lens

A structure made of two wire grids is positioned immediately after the energy analyzer. The first grid is the held at the potential of the inner plate. The second grid is held at the potential of ground. A particle passing through this structure is strongly focused upon the center of the sensor.

#### The Particle Sensor

A Bendix Model 4213-PAC/WL spiraltron particle sensor detects each charged particle which has passed through the energy analyzer. Pulse electronics attached to this sensor amplifies its output and sets a nominal dead time (See Table 2.3-1 for amplifier of 3.3 microseconds. gain and discriminator levels). This ratelimiting provides a stable well known dead time so that true counting rates of 10 counts/second can be measured unambiguously. The high voltage biasing of the spiraltron is illustrated in Figure 2.3-5 and Table 2.3-2 contains the bias voltage for each sensor vs latching command state. The first 1.445 inches of each sensor is shielded with a surrounding gold cylinder 0.040 inches thick. This shield reduces the background rate from penetrating radiation.

Suppression of secondary electrons and some additional focusing is accomplished by a semi-spherical shield (See Figure 2.3-2) which lies between the sensor and the electrostatic lens. The proton suppressor is at zero potential for each detector assembly. The electron suppressor for the low and high energy detectors are independently controlled by magnitude command and can be at -30 volts continuously or vary with step number as follows;

Low energy detector Steps 0 thru 31 suppressor voltage is 0.0 volts Steps 32 thru 63 suppressor voltage is -18.17 volts

High energy detector Steps 0 thru 15 suppressor voltage is 0.0 volts Steps 16 thru 63 suppressor voltage is -30.0 volts

TABLE 2.3-1
ATS-F & SCATHA DISCRIMINATION
LEVEL SUPPAKY
HIGH KNERGY DETECTORS

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	. Director .	CAIN ^{UV} /e ⁻	DISC LEVEL MV	DISC LEVEL TEST JACK CROSS # 6 ATTEN. COUPL.	ATTEN.	CROSS COUPLING NV	FLYBACK	MOISE	1 mile to
	4DA Ser 405.								
	Blectron	0.611	90av	1.35 × 10 ²	10.19	40mv	< 35av	.35mV	14v P-P
	Proton	0.233	111mv	4.78 × 10 ⁵	9.411				i
ı	XDA Ser \$06								
SMGS	Electron	0.789	90mv	1.14 × 10 ²	14.17	<b>~ 30</b>	9	0° ×	18v P-P
	Proton	0.160	60mv	3.75 × 10 ⁵	6.9	30	30	< 20	•
	TDA Ser 4								
	Proton	0.171	90mv	5.25 × 10 ³	5.95	20	23	02 >	<u> </u>
	EDA Ser #03				l				
	Blectron	0.6285	110mv	1.75 × 10 ²	17.14	< 80mv	<b>8</b> Y	စ္က	5.6 *
	Proton	0,199	70mv	3.5 × 10 ⁵	15.0	30mv	2	2	•
	and see 404								•
SM02		0.562	120mv	2.135 x 10 ⁵	14.1176	<b>%</b> v	100	4	1.3 VEP*
	Proton		100mv	3151 × 10 ⁵		< 45	\$	20	
	FDA Ser #			•					
	Proton	0.279	65mv	2.32 × 10 ⁵	1	;		:	:

ATS-VI consists of the following: MSRDA KWRDA NOTE:

**SN03** 40 SNO5 SNO3

* 680 to outer screw balance bar

(Continued)

ATS-F & SCATION DISCRIPCHATION
LEVEL SURGARY
HIGH ENERGY DETECTORS

•	PLYBACK NOISE THRESHOLD NY NY Lable to	TTO TTO	TED	
	NOTSE NV	2.2x10	1.4x10 ⁵	
	FLYBACK	116	8	
	ATTEN. COUPLING NO	130	P	
	TEST JACK ATTEN.	E.	9	
made Energy Derectors	DISC LEVEL DISC LEVEL TEST JACK GROSS NV # 6 ATTEN. COUPLE	3.5X10 ⁵	3.1X10 ⁵	
100	DISC LEVEL NV	240mv	120mv	
	CAIN UV/ er	-=/ADSL*O	.387W/e	
	.DETRCTOR	EDA'S SE O1	TOE	· .
	ries .			

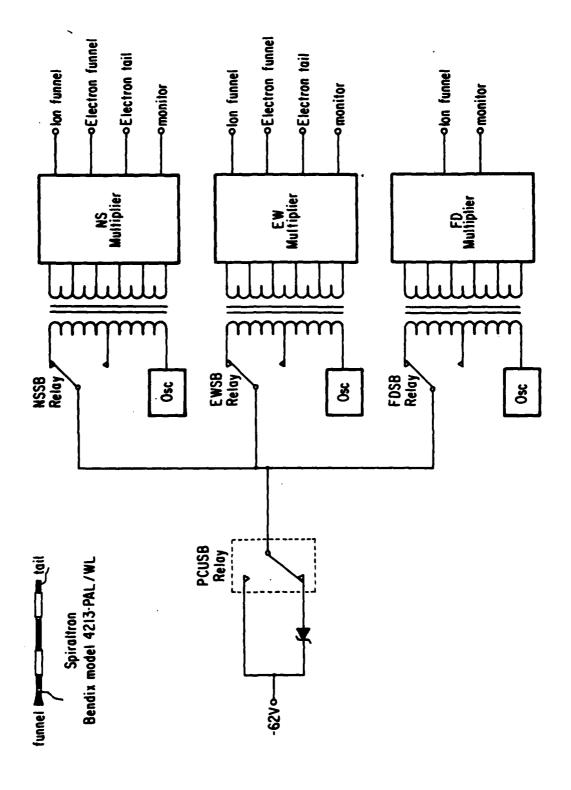


Figure 2.3-5 SPIRALTRON BIAS SCHEME, UCSD/SCATHA SC9

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TABLE 2.3-2

## SPIRALTRON BIAS VOLTAGES

## NS SPIRALTRON BIAS (HIGH ENERGY)

TATCH CMD 7021 702		SP1 ELECTRON		VOLTAGES	3	PERFORMANCE PARAMETERS
		FUNNEL	TAIL	FUNNEL	TAIL	J4007
0	0 -	+230	+2660	-2460	<b>~</b> 0	1.58
0	1 .	+272	+3130	-2890	~0	1.80
1	0	SEE NO	TE AT P	GE BOTTO	M	1.30
1	1	SEE NO	TE AT P	AGE BOTTO	M	1.50
		EW SPIR	RALTRON I	BIAS (LOW	ENERGY	)
LATCH CMD 7022 7020	-	SPI LECTRON	RALTRON	VOLTAGES ION	3	PERFORMANCE PARAMETERS
		FUNNEL	TAIL	FUNNEL	TAIL	J4008
0	0	+210	+2850	-2600	≃0	1.54
0 .	1	+240	+3180	-2910	<b>≃</b> 0	1.76
1	0	+170	+2390	-2190	≃0	1.22
1	1	+200	+2670	-2440	≃0	1.42
			D SPIRA	TRON BIA	<u>s</u>	
TO 23 70:		SPI ION	RALTRON	VOLTAGES PARAMETE		PERFORMANCE
		FUNNEL	TAIL	J4009		
0	0	2380	<b>≃</b> 0	1.38		
0	1	-2660	<b>-0</b>	1.58		
1	0	-2890	<b>∞</b> 0	1.70		
1	1	-3220	<b>=</b> 0	1.96		

NOTE: The remaining values were not determined before the spacecraft was launched.

The commands that control the electron suppressor voltage for the low energy rotating detector asembly are:

MAGNITUDE COMMAND #	FUNCTION DWELL STEP SIZE	
8287 8101 8102 8103 8104 8105	0 1 2 4 8 16	0 volts step 0-31, -18.17 volts step 32-63
8106	32	0 volts step 0-31, -18.17 volts step 32-63
8291 8292 8293 8294 8295 8296 8297	0 1 2 4 8 16 32	Fixed at -18.17 volts

The commands that control the electron suppressor voltage for the high energy rotating detector assembly are:

• 0.		•	1	-		
MAGNITUDE	COMMAND	#	3K GATE	ELECTRON SUF	PRESSOR	ACC GATING
				VOLTAG	E	MODE
8107-81	114		PNS	Fixed at -30	) volts	0-7
8115-81	122		PNS	0 volts step	0-15,	0-7
				-30 volts st		
8123-81	130		ENS	Fixed at -30		0-7
8131-81			ENS	0 volts ster		0-7
• • • • • • • • • • • • • • • • • • • •				-30 volts st		
8139-81	146		PEW	Fixed at -30		0-7
8147-81			PEW	0 volts step		0-7
021. 0				-30 volts st		
8155-81	162		EEW	Fixed at -30		0-7
8163-81			EEW	C volts step		
0205 0.	.,,			-30 volts st		
8171-81	178		PFIX	Fixed at -30		0-7
8179-81			PFIX	0 volts step		0-7
01/9-01			****	-30 volts st		• •
				20 44770 01	VJ	

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### 2.4 DETECTOR COMMANDS AND MODES

The UCSD/SCATHA SCO experiment is controlled by 21 discrete commands and one 22 bit serial magnitude command.

Latching Command Description - 21 discrete commands are used to set and reset 15 latching relays which in turn provide either 28 volt power or 10 volt logic levels to 80%. Table 2.4-2 provides the function each of the 21 discrete commands perform along with the appropriate number and names. Note that 7002 and all commands that end with the number 5 are used as resets while all others are used as sets.

#### Magnitude Command Description

SC9 receives from the spacecraft a 22 bit serially command referred to as a magnitude command. Bit utilization for the 22 bit serial command is as shown in Figure 2.4-1.

Note that bits 11-14 are used as an address field creating 16 possible addresses for the information in bits 15-22 which are referred to as data bits. Bit 15 corresponds to the MSB 27 and bit 22 corresponds to the LSB 2.

Table 2.4-1 is a summary of the 16 addresses in binary, octal and decimal vs. the strobe, the FORTH test name, and description of data transfer.

Table 2.4-3 summarizes by functional grouping the types of commands with typical response values.

For example, the command 10 NSLL would cause the number 10 to be stored in the NSLL register when the strobe STNSLL occurs. The 22 bit field would be as follows:

								Bit		ı	MAGN	ITUD	E COM	IMANI							
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	2:
X	X	X	X	X	X	X	0	X	X	0	0	0	0	0	0	0	0	1	0	1	5
X = DON'T CARE ADDRESS DATA																					
63	DT	-																			
X	X	x	x	x	х	x	0	х	Х	0	1	1	0	0	0	1	1	1	1	1	1
25	255 EWUL =																				
X	X	X	x	X	х	X	0	Х	X	0	0	1	1	1	1	1	1	1	1	1	ī
•	· C .																				

To facilitate sending magnitude commands in the SCATHA operational environment it was necessary to give each command to be used a number and of course there was a limit on the number of numbers available. Appendix B is the result of that operational constraint and it is called the command list. The command list includes latching commands as well as magnitude commands. Magnitude commands start at command \$7100.

## Bit Utilization for 22 Bit Serial Command

## FIGURE 2.4-1_

72	CBUS 1		20						
7	CBUS 2		2						
8	CBUS 3		22						
9	CBUS 4		23						
8	CBUS 5	Dat	24	٥	•	•	•	٠	255
17	CBUS 6	<u>'</u>	25						
9	CBUS 7		₂ e						
12 13 14 15 16 17 18 19	CBUS 8		27						
77	AO = MC9	ļ	20			_			
2	A1 = MC10		77						
12	A2 = MC11	Addres	22	0	•	•	•	•	15
11	A3 = MC12	¥	23	[					
2	= MC13			<u> </u>					
6	= MC14								
<b>∞</b>	PCE								
7	PARITY								
9	X = Don't Care								
<b>S</b>	X = Don't Care		f				•		
4	X = Don't Care		:						
<b>m</b>	X = Don't Care								
~	X = Don't Care								
-	X = Don't Care								
			_						

TABLE 2.4-1
COMMAND SUMMARY

BINARY Address A3A2A1A0	OCTAL ADDRESS	DECIMAL ADDRESS	STROBE NAME	FORTH TEST . NAME	DESCRIPTION
0 0 0 0	0 0	0	STNSLL	NSLL	Data on CBUS is strobed into NS lower limit register
0 0 0 1	0 1	1	STNSUL	NSUL	Data on CBUS is strobed into NS upper limit register
0 0 1 0	0 2	2	STEWLL	EWLL	Data on CBUS is strobed into EW lower limit register
0 0 1 1	0 3	3	STEWUL	EWUL	Data on CBUS is strobed into
0 1 0 0	0 4	4	STNSPS	NSPS	EW upper limit register Data on CBUS is strobed into NS position register
0 1 0 1	0 5	5	STEWPS	EWPS	Data on CBUS is strobed into EW position register
0 1 1 0	0 6	6	STDT	DT	Data on CBUS is strobed into dwell time register
0 1 1 1	0 7	7	ST DN	DN	Data on CBUS is strobed into dwell number register
1 0 0 0	1 0	8	STID1	ID1	Data on CBUS is strobed into initial dwell step register
1 0 0 1	1 1	9	STDS	DS	Data on CBUS is strobed into dwell step size register
1 0 1 0	1 2	10	STAG	AG	Data on CBUS is strobed into accumulator gating register
1 1 0 1	1.3	11	STMP	MP	Data on CBUS is strobed into motor power register
1 1 0 0	1 4	12	STROBE		wordt bonet redinest
1 1 0 1	1 5	13	STROBE		
1 1 1 0	1 6	14	STROBE		
1111	1 7	15			

of the second second second second

As can be seen from table 2.4-1 there are 12 different address's into which 8 bits of data can be strobed.

The first six addresses (NSLL, NSUL, EWLL, EWUL, NSPS, and EWPS) are used to transfer control bits into the position programmer which controls the rotation of the detector assemblies.

The next four addresses (DT, DN, ID1, AND DS) are used to transfer data into the deflection voltage programmer which determines the scan/dwell program and ultimately the energy of the particles to be analyzed.

The eleventh address (AG) is utilized to control the flow of data from each sensor to the accumulators 1-6 and the 3KHZ channel. In addition, a control bit for the electron suppressor voltage for the high energy detector is included.

Finally, the twelfth address (MP) is utilized to control the power to the motors and the mode of operation of the 3KHZ Channel.

#### POSITION PROGRAMMER

The position programmer has two identical sections. One section controls the NSRDA (High Energy Dectector) and the other controls the position of the EWRDA (Low Energy Detector).

NSLL
NSUL CONTROLS ROTATION OF NSRDA
NSPS

EWLL
EWUL CONTROLS ROTATION OF EWRDA
EWPS

See Figure 2.5-1 for Angle Definition

## SC9 RELAY COMMAND SUMMARY

## TABLE 2.4-2

COMMAND I	NO.	NAME		TYPE	FUNCTIONAL	DESCRIP.	MEAS NO.	-	NA	ME	т	LM	VAL	JUE	
7000	SC9	Power	ON	Ĺ	Applied +28V tical bus to voltage power	SC9 low	J401	6	PCU	MON	•	924	06	VDC	
7001	SC 9	POWER	OFF	' U	Removes +28V tical bus fro low voltage paupply.	om SC9	J401	6	PCU	MON	•	034	.08	VDC	;
7002	VOLT	PEFLECT RAGE IN (DVINS)	HI-	-	Inhibits defl voltage NSRDA		NOTE STAT 7002 7013 LATC SET BIT WILL BITS	US HIII A POS	OF 7003 7020 NG 7 11 SIT1 ESE1	LAT US OMM IN ON, TH	CHI 004 E F AND THE UN	NG IG. WI AF LAT	Oll A. LL PRO	S , 7 PRI CMD	ATE S
								J8:	545				(LS	B)	
7003*	VOLT	EFLECT AGE BIT (E			Intended to indeflection vo		BIT	8	7	6	5	4	3	2	 1
7004*	VQL1	EFLECT TAGE BIT (DV		_	Intended to indeflection vo			N O T	7 0 2	7 0 1	7 0 1	7 0 1	7 0 0	7 0 0	7 0 0
								USED	0	3			4 1-7	3	2
7005	COMM	ATCH BANDS 2, 7003	١,	U	Removes deflevoltage inhib function from EW, FD.	pit	J854	5	LC:	1-7			i ig	•	. •
7011		PIRALT		L	ON/OFF switch spiraltron vo		J854	5	LC:	1-7	S		Fig	•	

## SC9 RELAY COMMAND SUMMARY

Table 2.4-2 Cont.

•	(SVONS)		1⇒ CN	J	400	7	SVNS	5	1.2	26∢	. 5V	DC
7012	EW SPIRALTRON VOLTAGE ON	L	ON/OFF switch EWRDA spiraltron voltage	J	854	5	LC:	L-7	Sec A.	: E	ig.	
	(SVOEW)		1 = ON	J	400	8	SVE	¥	1.5	284	· . 5V	DC
7013	FD SPIRALTRON VOLTAGE ON	L	ON/OFF switch FDA spiraltron voltage		854	_	LC:		λ.		ig.	
	(SVOFD)		1 <b>&gt;</b> ON	J	400	9	SVF	0	1.3	16+	5V	DC
7015	UNLATCH CMES. 7011, 7012, 7013	บ	Unlatches commands 7011, 7012, and 7013	J J	854 400 400 400	7	LC:1 SVNS SVEW SVFE	5 1			ig. 05V	
7020	PCU SPIRAL- TRON BIAS (PCUSB)	L	Switch to raise and lower all spiraltron voltages.	J	854	5	LC:	l <b>-</b> 7	Sec	. F	ig.	<b>A</b>
7021	NS SPIRAL- TRON BIAS (NSSB)	L	Switch to raise and lower NS spiraltron voltages	S 7 7 8 P W	TAT 020 031 . L 051	US ATC IN TIC RE	040, H CM THE N, U	ATC 70 70 IDS APP INLA	HING 22, 41, WILL ROPF TChI	70 US S IA	MDS 23, E F ET A TE CM	A 517
7023	FD SPIRAL- TRON BIAS	L .	Switch to raise and lower FD spiraltron	J	355	2					(Li	5B)
	(FDSB		_	IT	8 N	7		5 7	4 7	3 7	2 7	1 7
÷					0 T	0	·	0	0	0	0	0
					U	4	4	3	3	2	2	2
					S	1	. 0	1	0	3	2	1
					D		ŗ	IC:	8-1 RE B			
7025	UNLATCH COMMANDS 7020, 7021, 7022, 7023	U	Unlatches 7020, 7021, 7022, and 7023		3549 355		LC:1 LC:8					
7030	MOTOR POWER (MP)	L	ON/OFF switch on motor voltage supply	J	355	2	LC:8	-14	See	F	ig.	В
7031	MOTOR VOLTAGE (MV)	L	Switch to raise and lower motor voltage		,		•	•	•		•	

# SC9 RELAY COMMAND SUMMARY Table 2.4-2 cont.

7035	UNLATCH CMDS 7030, 7031	U	Unlatches 7030 and 7031	•	•	•
7040**	MICROPRO- CESSOR BYPASS	L	Intended as a switch J8552 to enable microprocessor.	LC:8-14	See	Fig. B
7041**	MICROPROCES- SOR OFF	L	Intended as ON/OFF switch microprocessor supply.	• .	•	•
7045	UNLATCH	U	Unlatches 7040 and 7041	•	•	•

- * = Changing the EWRDA and FDA to low energy detectors eliminated the need for these commands.
- ** = The unavailability of the microprocessor eliminated the need for these commands. IMPORTANT NOTE: If 7040 is logical one SC9 will not respond to magnitude commands.

## TABLE 2.4-3

## TELEMETRY REPONSE

COMMAND NO.	NAME	FUNCTIONAL DESCRIPTION	MEAS NAME	TLM VALUE
7100-7279	NSLL Reversal Angle	Programs NS head lower limit register (NSLL) value entered determines NS lower limit head reversal angle. Reversal angles do) from -17-60 to +232 in 1.4 increments can be programmed.	J8510 NSLL	Each bit count change of J8510 corresponds to a reversal angle ghange of 1.4 start- ing at -17 -66 Thus when J8510=1; =-17.6 J8510=2; =-16.2   J8510=180; =233.0
7280-7281	Forced Reversal Angle, NSLL	Forces NS head to change direction (from to) immediately, irrespective of angular position	J8510 NSLL	
7282-7461	NSUL	Programs NS head upper limit register. Programmable values are same as those for NSLL.	J8511 NSUL	Same as NSLL verifica- tion, except use J8511.
7462-7463	Forced Reversal Angle, NSUL	Forces NS head to change direction (from to) immediately, irrespective of angular position.	J8511 NSUL	0 (7462) 255 (7463)
7464-7643	EWLL	Programs EW head lower limit register. Pro- grammable values are same as NSLL.	J8512 EWLL	Same as NSLL verfication except use J8512.
7464-7645	Forced Reversal Angle, EWLL	Forces Ek head to change direction (from to) immediately, irrespective of angular position.	J8512 EWLL	0 (7462) 255 (7463)
7646-7825	EWUL	Programs EW head upper limit register. Pro- grammable values are same as NSLL.	J8513 EWUL	Same as NSLL verification, except use J8513.

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Table 2.4-3 cont.

7826-7827	Forced Reversal Angle, EWUL	Forces Ew head to change direction (from to) immediately, irrespective of angular position.	J8513 EWUL 0 (7826) 255 (7827)
7828	NS Park Immediate	Stops NS head rotation	J8569 NSPS 0000,DCNTS
7829	NS Park at 90	Command we head to the +90 park position.	J8569 NSPS 160,DCNTS J4017 NSPOS 2.16+.05VDC J8506 NSPC 308+20,DCNTS
7830	NS Sweep	Command NS head to sweep between its optical limits (-20.4° to +220.8°)	J8569 NSPS 164, DCNTS J4017 NSPOS -20° +220° -54 4.46V J8506 NSPC 0000 0627
7831	NS Park at -20°	Commands NS head to the -20 park position	J8569 NSPS 165, DCNTS J4017 NSPCS .72+.06VDC J8506 NSPC 0000,DCNTS
7832	NS Park at	Commands NS head to the 0° park position	J8569 NSPS 166,DCNTS J4017 NSPOS .96+.06VDC J8506 NSPC 48+,DCNTS
7833	NS park at 180	Commands NS head to the 180 park position	J8569 NSPS 172,DCNTS J4017 NSPOS 3.88+.06VDC J8506 NSPC 5G5+,DCNTS
7834	NS park at 200	Commands NS head to the 200° park position	J8569 NSPS 180,DCNTS J4017 NSPOS 4.10,VDC J8506 NSPC 627+ DCNTS
7835	NS Wag	Commands NS head to wag between NSLL and NSUL.	J8569 NSPS 228,DCNTS J4017 NSFOS Limits are dependent on NSLL, NSUL set.
			J8506 NSPC "
7836	Ew park immediate	Stops EW head rotation	J8570 EWPS 0000, DCNTS
7837	EW park at +90	Commands EW head to +90 epark position	J8570 EWPS 160,DCNTS J4018 EWPOS 2.20+.06,VDC J8507 EWPC 312+,DCNTS
7838	ÈW Sweep	Commands EW had to sweep between its optional limits -20.40° to +220.8°	J8570 EWPS 164,DCNTS J4018 EWPOS -20° +220° .54 4.44VDC J8507 EWPC 0000 0630,DCNTS
7839	Ew park at -20	Commands EW head to -20° park position	J8570 EWPS 165,DCNTS J4018 EWPOS .54+.06,VDC

## Table 2.4-3 cont.

	•	Table 2.4-3 cont.	J8507 EWPS	0000,DCNTS
7840	EW park at	Commands EW head to 0 park position	J8570 EWPS J4018 EWPOS J8507 EWPC	166,DCNTS .74+.06,VDC 49+,DCN1S
7841	EW gark at 180	Commands EW head to the 180° park position	J8570 EWPS J4018 EWPOS J8507 EWPC	172,DCNT5 4.14+.06,VDC 566+,DCNTS
7842	Ew gark at 200	Commands EW head to the 200 park position	J8570 EWPS J4018 EWPOS J8507 EWPC	180, DCNTS 4.46+.05, VDC 630+, DCNTS
7843	ew Wag	Commands EW head to wag between EWLL and EWUL.	J8570 EWPS J4018 EWPOS	228, DCNTS Limits are dependant on EwLL, EwUL values.
			J8507 EWPC	4
7844	Scan only			
7845-7908	Dwell Time (DT)	Sets deflection program dwell time Dwell times of 64 seconds to 1 second can be programmed.	J8532 DT	Each bit change of J8532 corresponds to a dwell time (DT) change of 1 seconds starting at 128CNTS. Thus when: J8532=128:DT=64 J8532=129:DT=63
7909-7972	Dwell Tim	ne		Each bit change
7973-8004	Start Dwell number (DN)	Selects number of dwell periods (DN) that will occur in one deflection program cycle. DN values from 64 dwells/cycle to 2 dwells/cycle in increment of 2 can be programmed.	J8533 DN	of J8533 corresponds to a dwell number change of 2 dwells/cycle starting at 64 dwells/cycle. Thus when: J8533=0;DN=64 dwells/cycle J8533=1;DN=62 dwells/cycle J8533=63;DN=2

Table 2.4-3 cont.

					dwells/cycle
8005-8036	Preset dwell	Presets the DN register with required DN. Values of 64 dwells/cycle to 2 dwells/cycle can be present. This command will force the start of a new deflection program cycl	J8533	DN	Same verifica- tions as for "start dwell" command des- cribed above.
8037-8100	Initial Step(ID1)	Selects the initial dwell step value of the deflection program. Values ranging from 0-63 can be programmed in increments of 1.	J8534	ID1	Each bit change corresponds to an initial dwell step (ID1) change of 1, starting at 0. Thus when: J8534=0;ID1=0 J8534=1;ID1=1  1 J8534=63;ID1-63
8101-8106	Dwell Step Size(DS)	Selects the dwell step size of the deflection programs. DS values of 1, 2, 4, 8, 16, 32 can be programmed.	J8535	DS	Decimal count value in J8535 gives the dwell step size. Thus when: J8533=1;DS=1 1 J8533=32;DS=32
8107-8234	Accumu~ lator Gating	Determined data mode by selecting one mode of each of the following SC9 data functions  PUNCTION SELECTABLE MODE:  3KHz gate PNS, ENS, PEW, broadband EEW, PFIX, DISABLI data  Low energy On, Off mode		AG	CMD J8538 6101 0 8108 1 8109 2 4 4 8234 127
	Accumula- tor gating	Normal, fast proton fast electron, SFPNS, SFPEW, SFEEW, SFPFIX Refer to command list to determine modes selected by each command.	у		

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# SERIAL COMMAND FUNCTIONS Table 2.4-3 cont.

8235-8282	Motor Power
8283	'NS Position Status, 255
8284	EW Position Status, 255
8287	Dwell Step Size=0
8288	Dwell Step Sieze=255
8289	Accumulator Gating=255
8290	Motor Power =255
8291-8297	

#### 2.5 COMMAND MODES

Due to constraints on the operation of the SCATHA spacecraft, all possible commands cannot be sent in all possible modes. Also the anticipated times to be able to send commands are limited. Faced with this serious inconvenience, the experimenters have been asked to define a subset of useful modes in which to place their instruments. This subset can then exist on the tracking computer disks. A matrix showing possible transitions between these defined modes then indicates the most efficient way of changing from one to another. ground rules were that no more than 6-10 modes would be defined for any instrument. In the case of SC-9, this has been a severe burden. The instrument was designed to be "flown" in near real time and to be very flexible. However, the following modes have been defined and implemented. They represent a very useful subset of what is possible. Command state outside of those designated here would have to be implemented by defining a command string and having that placed on the disk before the desired satellite pass. The execution of this new command could be scheduled in the same manner as the normal states. The predicted minimum time to design and implement such a new mode is two weeks. Exceptions can be made to support real-time operation (in support of SC-4 for instance).

Note that certain of the magnitude commands can be varied to define different operating conditions within a given mode.

Modes are implemented by automated execution of commmand sequences. These sequences are indicated in the allowed-disallowed transition matrix. The exact definition of the sequences are also given.

## UCSD/SCATHA SC9 AURORAL PARTICLES EXPERIMENT

## MODE SUMMARY

Mode No.	MODE TITLE TITLE	POWER CONSUMPTION (NOMINAL + OPER RANGE)	-constraints-
0	OFF/SAFE	0	SC9-CON-2 SC9-CON-3
1	SCAN/SWEEP	15.56 + 3	SC9-CON-01
2	SCAN/DWELL/SWEEP	15.56 <u>+</u> 3	SC9-CON-01
3	SCAN/PARK	7.56 ± 3 AFTER PARK	SC9-CON-01
4	SCAN/DWELL/PARK	7.56 ± 3 AFTER PARK	SC9-CON-01
5	FAST MIX	7.56 + 3 IF PARK 15.56 + 3 IF SWEEP	SC9-CON-01
6	SAFE MODE 2	7.56 ± 3	

### UCSD/SCATHA SC9 AURORAL PARTICLES EXPERIMENT

## MODE TRANSITION MATRIX

"A" - Allowable Transition. For each Allowable Transition, write appropriate sequence number in box.

"D" - Disallowed Transition

TO	MODE-0 OFF/ SAFE	MODE-1 SCAN/ SWEEP	MODE-2 SCAN/ DWELL/ SWEEP	MODE-3 SCAN/ PARK	MODE-4 SCAN/ DWELL/ PARK	MODE-5 FAST MIX	MODE-6 SAFE MODE 2
MODE~0		D	A SC9CMD~1	D	D	D	A SC9CMD-9
MODE-1	A SC9CMD-2		A SC9CMD-3	A SC9CMD-4	D	D	A SC9CMD-9
MODE-2	A SC9CMD-2	A SC9CMD-5		D	A SC9CMD-4	A SC9CMD-6	a Sc9cmd-9
MODE-3	A SC9CMD2	A SC9CMD-7	D		A SC9CMD-3	D	A SC9CMD-9
MODE-4	A SC9CMD-2	ם	A SC9CMD-7	A SC9CMD-5		D	A SC9CMD-9
MODE-5	A SC9CMD-2	D	A SC9CMD-8	D	D		A SC9CMD-9
MODE-6	A SC9CMD-2	D	A SC9CMD-1	D	D	D	

## UCSD/SCATHA SC9 AURORAL PARTICLES EXPERIMENT

## COMMAND SEQUENCE SUMMARY

COMMAND BLOCK NO. SEQUENCE	COMMAND SEQUENCE FUNCTION OR DESCRIPTION	TRANSITION FROM MODE TO	MODE
SC9-CMD-1 B-7050	TURN ON - SET MODE 2	0	2
SC9-CMD-2 B-7060	OFF	1, 2, 3, 4, 5, 6	0
SC9-CMD-3 B-7051	TURN DWELL ON	1 3	2 4
SC9-CMD-4 B-7052	TURN PARK ON	1 2	3 4
SC9-CMD-5 B-7053	TURN DWELL OFF	2 4	1 3
SC9-CMD-6	FAST MIX ON	2	5
SC9-CMD-7	TURN PARK OFF	3 4	1 2
SC9-CMD-8	FAST MIX OFF	5	2
SC9-CMD-9 B-7061	TO SAFEMODE 2	0, 1, 2, 3, 4, 5	6
SC9-CMD-10	SC9 CHECKOUT SEQUENCE	NA	NA

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## 2.5.1 <u>Detector Rotation</u> NSRDA ROTATION CONTROL (High Energy Detector)

Data transferred to NSPS control register will control the rotation of the High Energy Detector as shown in Table 2.5-1. There are eight modes of operation:

Park Immediate- Detector will stop immediately upon execution of cmd. 7828 (0 NSPS)

Park 90 Deg.- Detector will park at 90 Deg. the next time it gets there after the execution of cmd. 7829 (160 NSPS)

Park -20 Deg.- Detector will park at -20 Deg. the next time it gets there after the execution of cmd. 7831 (165 NSPS)

Park 0 Deg. - Detector will park at 0 Deg. the next time it gets there after the execution of cmd. 7832 (166 NSPS)

Park 180 Deg.- Detector will park at 180 Deg. the next time it gets there after the executions of cmd. 7833 (172 NSPS)

Park 200 Deg.- Detector will park at 200 Deg. the next time it gets there after the execution of cmd. 7834 (180 NSPS)

WAG

SWEEP Detector will sweep between optical limits approximately 200 Deg. after the execution of cmd. 7830 (164 NSPS)

Detector will rotate between the lower and upper limit. Limits are established by NSLL and NSUL for the high energy detector. Wag will commence after the execution of cmd. 7835 (228 NSPS)

## NORTH SOUTH ROTATION CONTROL TABLE 2.5-1

MAG.	NSPS			N:	5 PS 1	DATA	BÍN	ARY		NSPS	NORTH SOUTH
CMD.	DATA	XXX	NS	NS	NSP	NSP	NSP	NSP	NSP	DATA	DETECTOR
#	DEC.	NSE	WAG	SWP	200	180	90	0	-20	DEC.	WILL:
7828	0	0	0	0	0	0	0	O	0	0	PARK IMMEDIATE
	•	•	•	•	•	•	•	•	• .	•	
	•	•	٠	•	•	•	•	•	•	•	. *
	127	0	1	1	1	1	1	1	1	127	• •
7829	160	1	0	1	0	0	0	0	0	160	Park at 90 Degrees
7830	164	1	0	1	0	0	1	0	0	164	Sweep between optical limits
7831	165	1	0	1	0	0	1	0	1	165	Park at -20 Degrees
7832	166	1	0	1	0	0	1	1	0	166	Park at 0 Degrees
7833	172	1	0	1	0	1	1	0	0	172	Park at 180 Degrees
7834	180	1	0	1	1	0	1	0	0	180	Park at 200 Degrees
7835	228	1	1	1	0	0	1	0	0	228	Wag between upper and lower limit

# SC9 - NS SWEEP ANGLE VS POSITION COUNTER TABLE 2.5-2

# UCSD/SCATHA SC9 AURORAL PARTICLES EXPERIMENT NSRDA (HIGH ENERGY) SWEEP ANGLE VS POSITION COUNTER AND ANALOG PERFORMANCE MONITOR

TNS= 3.63 TEW= 3.62 TMB= 3.66

POSI COUN NSPC		ANALOG PERFORMANCE NUMBER	NSPC		NSP	NSPC	nsp
J850		J4017	J8506	q.	J4017 ,	J8506 a*	J4017
0	-19.53	0.74	100	+15.35	1.16	200 +50.23	1.60
4	-18.14	0.76	104	+16.75	1.18	204 +51.63	1.64
8	-16.74	0.78	108	+18.14	1.18	208 +53.02	1.66
12	-15.35	0.80	112	+19.53	1.20	212 +54.42	1.68
16	-13.95	0.82	116	+20.93	1.20	216 +55.81	1.70
20	-12.56	0.84	120	+22.32	1.22	220 +57.21	1.72
24	-11.16	0.88	124	+23.72	1.24	224 +58.60	1.76
28	-9.77	0.90	128	+25.11	1.24	228 +60.00	1.78
32	-8.37	0.92	132	+26.51	1.26	232 +61.39	1.80
36	-6.98	0.94	136	+27.90	1.28	236 +62.79	1.82
40	-5.58	0.96	140	+29.30	1.30	240 +64.19	1.84
44	-4.18	0.98	144	+30.69	1.32	244 +65.58	1.86
48	-2.79	1.00	148	+32.09	1.34	248 +66.98	1.90
52	-1.39	1.02	152	+33.49	1.38	252 +68.37	1.92
56	0.0	1.02	156	+34.88	1.38	256 +69.77	1.94
60	+1.39	1.04	160	+36.30	1.40	260 +71.16	1.96
64	+2.79	1.04	164	+37.67	1.42	264 +72.56	1.98
68	+4.19	1.06	168	+39.06	1.44	268 +73.95	2.00
72	+5.58	1.08	172	+40.46	1.46	272 +75.35	2.02
76	+6.98	1.10	176	+41.86	1.48	276 +76.74	2.04
80	+8.37	1.12	180	+43.25	1.50	280 +78.14	2.08
84	+9.97	1.12	184	+44.65	1.52	284 +79.53	2.10
88	+11.16	1.14	188	+46.04	1.54	288 +80.93	2.12
92	+12.56	1.16	192	+47.44	1.56	292 +82.32	2.14
96	+13.95	1.16	196	+48.83	1.58	296 +83.72	2.16

TABLE 2.5_2 (CONTINUED)

NSPC J850	5 a+	NSP J4017	NSPC J8506	æ•	NSP J4017	NSPC J8506	a•	NSP J4017
					<u> </u>			
300	+85.12	2.20	400	+120.00	2.74	500	+154.88	3,42
304	+86.51	2.22	404	+121.39	2.76	504	+156.28	3.46
308	+87.90	2.24	408	+122.79	2.78	508	+157.67	3.50
312	+89.30	2.26	412	+124.19	2.80	512	+159.06	3.52
316	+90.70	2.30	416	+125.58	2.82	516	+160.46	3.56
320	+92.09	2.30	420	+126.98	2.86	520	+161.86	3.60
324	+93.49	2.32	424	+128.37	2.88	524	+163.25	3.62
328	+94.88	2.34	428	+129.77	2.90	528	+164.65	3.66
332	+96.28	2.36	432	+131.16	2.92	532	+166.05	3.70
336	+97.67	2.38	436	+132.56	2.96	536	+167.44	3.74
340	+99.07	2.40	440	+133.95	2.98	540	+168.84	3.76
344	+100.46	2.44	444	+135.35	3.00	544	+170.23	3.82
348	+101.86	2.44	448	+136.74	3.04	548	+171.63	3.84
352	+103.26	2.48	452	+138.14	3.08	552	+173.02	3.86
356	+104.65	2.50	456	+139.53	3.10	556	+174.42	3.90
360	+106.05	2.50	460	+140.93	3.12	560	+175.81	3.94
364	+107.44	2.54	464	+142.33	3.14	564	+177.21	3.98
368	+108.83	2.56	468	+143.72	3.18	568	+178.60	4.00
372	+110.23	2.58	472	+145.12	3.20	572	+180.00	4.00
376	+111.62	2.60	476	+146.51	3.22	576	+181.39	4.04
380	+113.02	2.62	480	+147.90	3.26	580	+182.79	4.08
384	+114.42	2.66	484	+149.30	3.30	584	+184.17	4.08
388	+115.81	2.66	488	+150.70	3.32	588	+185.58	4.12
392	+117.21	2.70	492	+152.09	3.36	592	+186.98	4.14
396	+118.60	2.72	496	+153.49	3.40	596	+188.37	4.14

TABL	E 2.5-2	(CONTINUED)					
MSPC J850		NSP J4017					
600	+189.76	4.16					
604	+191.16	4.16					
608	+192.56	4.18					
612	+193.95	4.18					
616	+195.34	4.20					
620	+196.74	4.22					
624	+198.14	4.22					
628	+199.53	4.22					

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EWRDA ROTATION CONTROL (Low Energy Detector)

Data transferred to EWPS control register will control the rotation of the Low Energy Detector as shown in Table 2.5.2-3. There are eight modes of operation:

- Park Immediate- Detector will stop immediately upon execution of of cmd. 7836 (0 EWPS)
- Park 90 Deg.- Detector will park at (90 + 22.5) Deg. the next time it gets there after the execution of cmd. 7837 (160 EWPS)
- Park -20 Deg.- Detector will park at (-20 + 22.5) Deg. the next time it gets there after the execution of cmd. 7839 (165 EWPS)
- Park 0 Deg.- Detector will park at (0 + 22.5) Deg. the next time it gets there after the execution of cmd. 7840 (166 EWPS)
- Park 180 Deg.- Detector will park at (180 +22.5) Deg. the next time it gets there after the execution of cmd. 7841 (172 EWPS)
- Park 200 Deg. Detector will park at (200 + 22.5) Deg. the next time it gets there after the execution of cmd. 7842 (180 EWPS)
- Sweep- Detector will sweep between optical limits approximately 220 Degrees after the execution of cmd. 7838 (164 EWPS)
- WagDetector will rotate between the lower and upper limit. Limits are established by EWLL and EWUL for the Low Energy Detector. Wag will commence after the execution of cmd. 7843 (228 EWPS)

TABLE 2.5-3

EAST WEST ROTATION CONTROL

	EWPS						INAR'			EW PS	EAST WEST
	DATA	D. I D	EW				EWP			DATA	DETECTOR
•	DEC.	EWE	WAG	SWP	200	180	90	0	-20	DEC.	WILL:
7836	0	0	0	0	0	0	0	0	0	0	PARK IMMEDIATE
	•	•	•	•	•	•	•	•	•	. •	• •
	•	•	•	•	•	•	•	•	•	•	
	127	0	1	1	1	1	1	1	1	127	• •
7837	160	1	0	1	0	0	0	0	0	160	Park at (90 + 22.5) degrees
7839	164	1	0	1	0	0	1	0	0	164	Sweep between optical
7839	165	1	0	1	0	0	1	0	1	165	Park at (-20 + 22.5) degrees
7840	166	1	0	1	0	0	1	1	0	166	Park at (0 + 22.5) degrees
7841	172	1	0	1	0	1	1	0	0	172	Park at (180 + 22.5) degrees
7842	180	1	0	1	1	0	.1	0	0	180	Park at (200 + 22.5 degrees
7843	228	1	1	1	0	0	1	0	0	228	Wag between upper a lower limit

**TABLE 2.5-4** 

## UCSD/SCATHA SC9 AURORAL PARTICLES EXPERIMENT EWRDA (LOW ENERGY)

## SWEEP ANGLE VS POSITION COUNTER AND ANALOG PERFORMANCE MONITOR

TNS= 3.63 TEW= 3.62 TMB= 3.66

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POSITION EWRDA COUNTER ROTATION EWPC ANGLE		ANALOG PERFORMANCE MONITOR EWP	EWPC		EWP	EWPC	EWP
J850		J4018	J8507	<b>••</b>	J4018	J8507	J4018
0	-19.53	0.56	100	+15.35	0.96	200 +50.23	1.48
4	-18.14	0.56	104	+16.75	1.00	204 +51.63	1.50
8	-16.74	0.58	108	+18.14	1.00	208 +53.02	1.54
12	-15.35	0.60	112	+19.53	1.02	212 +54.42	1.56
16	-13.95	0.62	116	+20.93	1.04	216 +55.81	1.58
20	-12.56	0.64	120	+22.32	1.04	220 +57.21	1.60
24	-11.16	0.66	124	+23.72	1.06	224 +58.60	1.62
28	-9.77	0.66	128	+25.11	1.08	228 +60.00	1.66
32	-8.37	0.68	132	+26.51	1.10	232 +61.39	1.68
36	-6.98	0.70	136	+27.90	1.12	236 +62.79	1.70
40	-5.58	0.72	140	+29.30	1.14	240 +64.19	1.72
44	-4.18	0.74	144	+30.69	1.16	244 +65.58	1.76
48	-2.79	0.76	148	+32.09	1.18	248 +66.98	1.78
52	-1.39	0.78	152	+33.49	1.20	252 +68.37	1.80
56	0.0	0.78	156	+34.88	1.22	256 +69.77	1.82
60	+1.39	0.80	160	+36.30	1.24	260 +71.16	1.86
64	+2.79	0.82	164	+37.67	1.26	264 +72.56	1.88
68	+4.19	0.84	168	+39.06	1.30	268 +73.95	1.90
72	+5.58	0.84	172	+40.46	1.32	272 +75.35	1.92
76	+6.98	0.88	176	+41.86	1.34	276 +76.74	1.96
80	+8.37	0.90	180	+43.25	1.36	280 +78.14	1.98
84	+9.97	0.92	184	+44.65	1.38	284 +79.53	2.00
88	+11.16	0.94	188	+46.04	1.40	288 +80.93	2.04
92	+12.56	0.96	192	+47.44		292 +82.32	2.06
96	+13.95	0.96	196	+48.83	1.46	296 +83.72	2.64

Table 2.5-4 (CONTINUED)

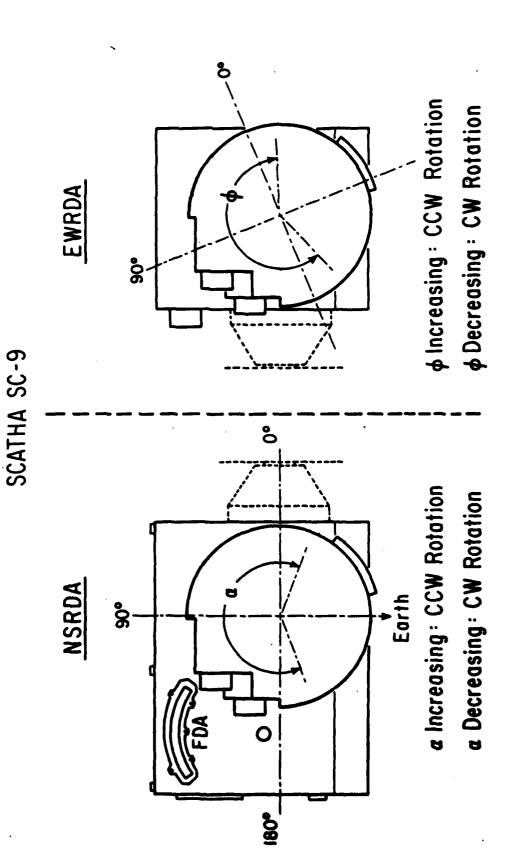
ewpc J8507	7 4*	EWP J4018	EWPC J8507	<b>†*</b>	EWP J4018	EWPC J8507	<b>••</b>	EWP J4018
300	+85.12	2.10	400	+120.00	2.66	500	+154.88	3.48
304	+86.51	2.14	404	+121.39	2.68	504	+156.28	3.52
308	+87.90	2.16	408	+122.79	2.72	508	+157.67	3.56
312	+89.30	2.18	412	+124.19	2.74	512	+159.06	3.60
316	+90.70	2.20	416	+125.58	2.76	516	+160.46	3.64
320	+92.09	2,24	420	+126.98	2.80	520	+161.86	3.68
324	+93.49	2.26	424	+128.37	2.82	524	+163.25	3.72
328	+94.88	2.28	428	+129.77	2.86	528	+164.65	3.76
332	+96.28	2.30	432	+131.16	2.88	532	+166.05	3.80
336	+97.67	2.32	436	+132.56	2.90	536	+167.44	3.84
340	+99.07	2.34	440	+133.95	2.94	540	+168.84	3.88
344	+100.46	2.36	444	+135.35	2.98	544	+170.23	3.92
348	+101.86	2.38	448	+136.74	3.02	548	+171.63	3.98
352	+103.26	2.38	452	+138.14	3.04	552	+173.02	4.02
356	+104.65	2.42	456	+139.53	8.08	550	+174.42	4.06
360	+106.05	2.44	460	+140.93	3.12	560	+175.81	4.10
364	+107.44	2.46	464	+142.33	3.14	564	+177.21	4.14
368	+108.83	2.48	468	+143.72	3.18	568	+1.78.60	4.16
372	+110.23	2.50	472	+145.12	3.20	572	+180.00	4.22
376	+111.62	2.52	476	+146.51	3.24	576	+181.35	4.24
380	+113.02	2.54	480	+147.90	3.28	580	+182.79	4.28
384	+114.42	2.56	4/84	+149.30	3.32	584	+184.17	4.32
388	+115.81	2.60	488	+150.70	3.36	588	+185.58	4.34
392	+117.21	2.62	492	+152.09	3.40	592	+186.98	4.36
396	+118.60	2.64	496	+153.49	3.44	596	+188.37	4.40

Table 2.5-4 (CONTINUED)

EWPC J8501	7 +•	EWP J4018
600 604 608 612 616 620 624 628	+189.76 +191.16 +192.56 +193.95 +195.34 +196.74 +198.14 +199.53	4.42 4.44 4.46 4.46 4.48 4.50 4.52

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Table 2.5-2 summarizes detector rotation angle vs position counter and analog performance monitor for NSRDA.

Table 2.5-4 summarizes detector rotation angle vs position counter and analog performance monitor for EWRDA.

#### 2.5.2 Detector Energy Levels

#### DEFLECTION VOLTAGE PROGRAMMER

Scan - The simplest energy program available is called scan. In this program, the analyzer scans sequentially through 64 discrete exponentially spaced energy levels. The program starts at the lowest energy level E0 and proceeds to the highest energy E63. Each energy level is maintained for 250 ms before proceeding to the next energy level. Transition time between energy levels is assumed to be negligible. The scan only mode of operation is simply a mode in which the analyzer energy is controlled by consecutive scan programs. Execution of magnitude command number 7844 will cause all of the electrostatic analyzer's to operate in the scan only mode.

Scan-Dwell Program - This program starts with a single scan as described above. At the completion of the scan the analyzer will then jump to a predetermined energy level IDl (one of the 64 scan energy levels) and maintain than energy level (DWELL) for a predetermined length of time DT. At the completion of the dwell the analyzer will perform a scan program and then dwell at the next dwell energy level E(IDl + DS), where DS is the number of discrete energy levels or steps between adjacent dwells of the same scan dwell program. This process continues until a predetermined number of dwells (ND) have occurred at which time the program repeats.

The following parameters define the scan dwell program and are controllable by magnitude commands:

MAGNITUDE COMMAND	PARAMETER	DEFINITION
7845-7972	DT	The length of time each dwell is maintained
7973-8036	DN	The number of dwells in a scan-dwell program
8037-8100	ID1	The initial dwell energy level of a scan dwell program
8101-8106		
8291-8297	DSS	The number of discrete energy levels between adjacent dwells of the same program

Figure 2.5-2 illustrates typical scan and scan dwell programs.

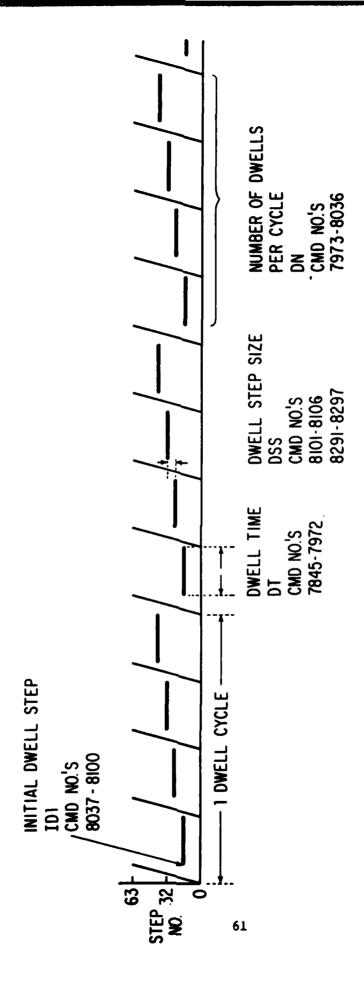


Figure 2.5-2

TYPICAL SCAN DWELL PROGRAM

#### DETECTOR ENERGY

#### NOMINAL VALUE

The power supply which drives the plates of the detector's energy analyzer can be programmed to supply any one of 64 voltage steps. (see page 5 of the current SC-9 Handbook for more information on the energy analyzer) Nominally, the voltage applied to the plates should be: Eo = -21 + 16.1 * (1.145 ** S) where S is the desired energy step. A graph of the log10 (energy applied) vs step number is provided.

#### CORRECTIONS

In the high energy detectors, (North-South detectors) the actual voltage of the analyzer is not the nominal voltage Eo. One must also take into account a temperature dependent transient response voltage which occurs following the transition from a high energy step to a low energy step.

whenever the voltage of the analyzers drops from a high value to a low value, a voltage offset occurs. Normally, this happens during the transition from a scan period to a dwell period. This offset voltage behaves unpredictably for the first 1/4 to 1/2 seconds after the transition, and then decays away with a 1/(t+c) reponse. Because of the beginning unpredictability, the first few data points after the transition are thrown out. The transient response of the offset voltage then causes the energy analyzer to slowly sweep down through

higher voltages than originally intended.

In order to compensate for this extra voltage, a correction to the nominal energy value, Eo, must be made. The form of this correction is:

E(total energy of analyzer) = Eo + Cl[ 1/(4t+C2) + 1/(4 * dwell time + C3) - <math>1/C4],

where:

Cl is of the form: A + Bexp(C * T), with:

A = 18.3

B = 0.43

C = 0.06

T = temperature in degrees centigrade

4t = 4 * time since transition.

= number of steps since end of scan

For all dwell lengths:

C2 = 1

C3 = 65

C4 = 97

This E(total) is computed for all dwell lengths, and for both scan/dwell and scan only modes. NOTE: The last two terms of E(total) cancel for dwell periods of 8 seconds.

Finally, when the preceding dwell is at a high energy step, a fourth term becomes important in determining the energy during the

following scan period. Again, the transition is from a high energy step to a low energy step, but now it is from the end of a dwell to the beginning of a scan. This fourth term is:

E3 = [ (-21 + 16.1 * (1.145 ** (dwell step))]/81557] * (C1/(S + 1)] where S is the energy step number.

Thus, the total energy during a scan is equal to:

E(total) = Eo + Cl[1/(4t+1) + 1/(4t+65) - 1/97] + E3

Note: E3 is not added in during a dwell period.

As E3 is very small if the dwell energy step is low, it is always computed and added in during all scan periods except when the instrument is in the scan only mode.

The constants A,B and C in the Cl correction value were determined using NS Electron data. During a very low energy dwell, the analyzer energy will sweep through the photoelectron spike and a Cl value can be choosen to fit the dwell spectrum to the scan spectrum which follows it. This fit was done for three different temperatures: 8,13 and 17 degrees centigrade, which seems to be a typical temperature spread of the detector heads. The above form of Cl as a function of temperature was assumed, and the constants were solved for algebraically. Unfortunately, as the temperature spread is small, the accuracy of A,B and C is hard to determine.

#### HIGH EMERCY DETECTOR

Typical values for E0-E53 for electrons and ions for the scan following a 32 second dwell are given in Table 2.5-6. The energy equation is included with the table. A nominal room temperature C1 value has been choosen. Table 2.5-5 summarizes energy analyzed versus dwell step number and accumulation interval with C1 again taken as the nominal room temperature value.

#### LOW EMERGY DETECTOR

Typical values for E0-E63 for electrons and ions for the low energy detector are given in Table: 2.5-7.

TABLE 2.5-5 HIGH ENERGY DETECTOR ENERGY ANALYZED VS DWELL STEP NO. AND ACCUMULATION INTERVAL

E FOR LOW EMERGY DWELL IN SCAN-DWELL CYCLEGROOM TEMP!

910 - 24.6
78.78 28.87
352 19
1 589.
102
163
.230
1010.
.639
.685
,5521
435
\$ 25¢.
1 - 24.
010
950
. 902
200
2962
722
.685
650
0.00
533
509
433
463
. 142
. 122
403
.365
268

10.10

TABLE 2.5-6
TYPICAL VALUES FOR E0 - E63
POR
HIGH ENERGY DETECTOR

E = -21 + 16.1-(1.145-45) + 28./(P-1) 32 SECOND DWELL . M. s 128 + 8 (ROOM TEMP)

THE PARTY OF THE P

TABLE 2.5-7

### TYPICAL VALUES E0 - E63 FOR LOW ENERGY DETECTOR

Step # Energy in EV Step # Energy in 0 -0.334 32 26.26 1 -0.29 33 30.10	EV
20 10	
20 10	
1 40.74 33 37.47	
2 -0.23 34 34.57	
1 -0.29 33 30.10 2 -0.23 34 34.57 3 -0.16 35 39.70	
4 -0.08 36 45.55	
50.00	
6 0.09 38 60.00 7 0.22 39 68.77 8 0.34 40 78.55	
8 0.34 40 78.55	
9 0.50 41 90.10	
10 0.67 42 103.32	
11 0.87 43 118.32	
12 1.10 44 135.65	
13 1.36 45 155.43	
1.66 46 178.09	
īš 2.00 47 203.98	
16 2.39 48 233.42	
17 2.83 49 267.20	
18 3.34 50 306.30	
19 3.94 51 350.74	
20 4.60 52 401.96	
5.37 53 457.73	
22 6.25 54 525.50	
23 7.25 55 601.05	
24 8.40 56 687.71	
25 9.72 57 787.70	
26 11.23 58 902.13	
27 12.96 59 1033.23	
28 14.96 60 1184.33	
29 17.23 61 1355.42	
30 19.83 62 1529.85	
31 22.8 63 1777.60	

The second of th

#### 2.6 ACCUMULATOR GATING

The magnitude command AG controls three features of the SC9 experiment:

- 1) controls flow of data into the 3KHZ channel
- 2) controls the electron suppressor voltage on the High Energy Detector as described in section 2.2-1
- 3) controls flow of data from each of the five detectors into the six accumulators.

3KHZ Gating- The flow of data into the 3KHZ Channel is controled by magnitude command AG as follows;

MAGNITUDE	COMMAND NUMBER	INPUT DATA TO 3KHZ CHANNEL
8107 THRU	8122	ION DATA HIGH ENERGY DETECTOR (PNS)
8123 THRU	8138	ELECTRON DATA HIGH ENERGY DETECTOR (ENS)
8139 THRU	8154	ION DATA LOW ENERGY DETECTOR (PEW)
8155 THRU	8170	ELECTRON DATA LOW ENERGY DETECTOR (EEW)
8171 THRU	8186	ION DATA FIXED DETECTOR (PFIX)

Electron Suppressor Voltage High Energy Detector-As described in section 2.3.1.

Accumulator gating - There are eight modes of accumulator gating. During scan in any of the modes, the data is always routed the same way. During dwell, the accumulator assignments change and the accumulation intervals change. Table 2.6-1 and 2.6-2 summarizes the contents of the six accumulators vs. mode. Finally, the logic equations for the accumulator gating is presented in figure 2.6-1.

TABLE 2.6-1

ACCUMULATOR GATING

5/13/76 - EMS Nev. 10/9/76

MAGNITUDE	*	ACCUMULATOR COMMANDS AGD AG1	CHESTATOR CHESTOR AGO AGO AGO	2 5	HODE HOMENCLATURE		COS	CONTENTS OF DUNING	SCAN	1			Son	CONTENTS OF DURING	ACC #		
men	OCTAL				ACC. TIME me	1	~	~	4	•		-	7	64	7	•	•
8107, 8115,8227	•	۰	•	0	Hormel T	PNS 234	23.4	23.5	23.5	## ##	H CH	P16 249.99	. EDIS 249.99	PEN 249.99	249.99	124.99	PF1X 125
8106, 8116,8228	-	-	•	•	Fast Ion T	<b>PNS</b> 234	234 234	PEN 234	25	## 117	mu 117	124.99	PNS 125	PEN 124.99	125	PFIX 124.99	77.TX 125
8109, 8117,8229	~	•	-	•	Fast Hix T	PNS 234	ENS 234	73.7	234 234	711 117	## 117	728 24.99	PN8 125	R36 124.99	ED45 125	124.99	EED4 125
8110, 8118,8230	6	-		0	SFPNS	PRS 234	234	23.4	234 234	711 117	MIN 117	F28 62.5	PMS 62.5	P18 62.5	778 62.5	ENS 249.99	PEN 249.99
6111, 6119,8231	•	•	-		SPENS T	234	83	234	2,75	711 117	mu 117	62.5	EDIS 62.5	62.5	ENS 62.5	PMS 249.99	249.99
8112, 8120,8232	Φ.	-	1 0	-	SP PEU T	716 234	25	22	100	## 117	HE CE	PEW 62.5	PEG 62.5	PEN 62.5	PEU 62.5	KEM 249.99	PNS 249.99
8113, 8121,6238	•	•	_		SPESSI T	23.5	23.5	更为	Bá	117 117	ma 117	62.5	62.5	62,5	22.5	PEN 249.99	249.99
8114, 8122,6234	^	-	-	<b></b>	SPFFIX .	22	83	E X	Bá	## 117	H L	74 S 2.5	77 IX 62.5	#12 62.5	## 62.5	249.99	PEH 249.99
	•					, to 4 t	54.	5.0	5.0	24	,,,,	241	,, ,,		5.4	94	n •

ACCUMULATOR INPORMATION

7/12/77

											-
	YCO	ACCIDENTATOR	SCAN				2	1 1 2			
ALL SURCEOCH'S	MON	HOGHCIATURE	74-01 74-01	£	Ę	Ø	8	¥	3	9	Œ
	ACC #1	1	PNS	PNS	PNS	PNS	PNS	ENS	PEW	EEW	PFIX
34501		ACI 7 fr	2-31 224	812	58.812	88.812 12/ 09	54.812 62.50	24.812 62 60	\$ \$	62 69	62 69
			1 5	610.33	610	010	200	610	610	610	
		DECET	910	910	210	210	811 113	210	118	118	118
		READOUT	8	SUBFRANCS	TELEPOTIN 1	WORDS 104, 105	95				
			i			•		1	į	į	į
34566	ACC #2				PNS	1 N	PRS		rea.	KEN	FIX
}		ACI	2-31	<b>S12</b>	60	89	85	85	85	85	85
		I in	234	249.99	125.00	125.00	62.5	62.5	62.5	62.5	62.5
		XFR	810	810	810	810	810	810	810	810	810
		RESET	211	811	811	811	811	811	811	811	811
		READOUT	RVEN	SUBPRANTS	TELEMETRY	WORDS 104, 105	105				
34502	ACC 43	DATA	784	File	764	SNZ		Sing	7214	20.00	X1 44
!	}	104	2-31	613	CIO BO	C19 83		3	ş	, y	. y
		T in T	234	249.99	124.99	124.99	62.5	62.5	62.5	62.5	62.5
		200	810	810	810	810		810	810	810	810
		RESET	811	511	811	811		811	811	811	811
		READOUT	8	UBFRAMES	TELEMETRY	HORDS 49,50	1				
-4663	ACC #4	DATA	A STATE OF THE STA	KEN.	Maid	EXS		ENS	Made	70	PFIX
/00	}		2-31	817	68	68	87	87	87	87	87
		T to B	234	249.99	125.00	125.00		62,5	62.5	62.5	62.5
		XFR	810	810	810	810		810	810	810	810
		RESET	811	811	811	511		811	811	811	511
		READOUT	EVEN	SUBRAMES	TELEMETRY	WORDS 49.50	H				
34503	Acc #5	DATA	PPIX	PFIX	PFIX	KKM		SNA	2	740	DAG
•	ı		2-16	88.812	\$8.812	88.812		812	š12	812	213
		T in me	117	124.99	124.99	124.99	249.99	249.99	249.99	249.99	249.99
		XFR	810	810	810	810		\$10	810	810	810
		RESET	811	811	811	811		811	811	811	811
		READOUT	8	SUBFRAMES	TRIBUELE	HORDS 51, 52	1				
34568	ACC #6	DATA	PFIX		77.IX		MEN	ERM	P168	ENS	PEU
		VCI.	17-31	-	23	83	<u>812</u>	812	512	<b>\$12</b>	\$12
		T in me	117		125	125	249.99	249.99	249.99	249.99	249.
		XY	810	810	81(	810	810	810	810	310	810
		MESET	211	- P	811	811	811	811	811	811	811

# CCUMULATOR GATING

May 19, 1976 E. W. Strein

1) 
$$X = (M3.PMS + M4.EMS + M5.PEW + M6.EEW + M7.PFIX)$$

2) 
$$Y = (M3.EMS + M4.PMS + M5.EEW + M6.PEW + M7.PMS)$$

3) 
$$Z = (HJ.PEM + H4.REW + H5.PNS + H6.ENS + H7.PEW)$$

5) ACC #2 + EMS. (81.8CAN + 
$$\overline{812}$$
.MO.DWELL) + DWELL. [(M1 + M2).PNS.S9 + 85.(X)]

Data Interpretation - The serial readout of ACC1-6 are assigned measurement numbers as follows:

ACCUMULATOR #	MEASUREMENT
1	J4501
2	J4566
3	J4502
4	J4567
5	J4503
6	J4568

The bit assignment and interpretation of the above measurements are presented in the following three pages.

ABCINITATOR 1

	ğ	YZASURENDIT # 34501	198501					¥	Decisional variables						
	NOTE WATER PRANTS	F FRA'GS													T
								WORD 105					Ì		
	2010										•			,	
7.	9,	25	24	23	72	72	0%	2,7	%	22	<b>4</b> 2	23	2,2	21	ع _م ا
•	•									1	6.694	1.03	401	100 000	100.10
		AC1-10 AC1-10	11-11	AC1-10		8-12V	ACL-9 ACI-8 ACI-7 ACI-6	9-12V	ACI-5	ACI-4	ACI-5 ACI-4 ACI-5 ACI-1	7		Well-or	
AC1-14	NCI-12	ACE-24													

ACI-15 is the MSB of accremiator one  $(2^{15})$ 

ACL-0 is the LSs of accumulator one  $\langle 2^0 \rangle$ 

ខ្ព

		_
CI-O is the 155 or accumulator was	THE PARTY AND 12 ACT -11 ACT -10 ACT -9 ACT -8 ACT -5 ACT -6 ACT -5 ACT -4 ACT -1 ACT -1 ACT -0	
owing 1	AC1-1	
be foll	AC2	
obcafa t	AC1-3	
ft. To	ACI-4	
r one b	AC1-5	
.01 righ	AC1-6	
tate 345	AC1-7	
one, ro	AC1-8	
mlator	AC1-9	1
in secu	01-10	
stored	111111	
e counts	1 25.00	
CI-O is the USS of accumulator of count		, cr-ra
Of accum		*I-131
the Use		51-15
다 년 단		٧

HEASURDIENT # 34566

ACCUMILATOR 2

	CDD MAIN	CDD MAIN FRANKES													
								SOL MOCES							1
	104 104	•										,	•	_	0
-	9	3	4.	C,	7,	21	°2	27	92	~~ ~~	3 ₅	27	2.		.
<b>*</b>	~	7	,	•		'			1			. 8.	. 5	ACT-0 ACT-15	AC2-15
10.00	13-13	AM-11 AM-11 AM-12 AM-11 AM-10	AC2-11		AC2-9	AC2-8	AC2-7	AC2-6	A 622-5	4-2-4	ACZ-9   ACZ-8   ACZ-7   ACZ-6   ACZ-5   ACZ-3   ACZ-3   ACZ-2	7-77	1 2		

A.22-15 is the HSB of accumulator two  $(2^{15})$ 

AC2-0 is the LSB of accumulator two  $(2^0)$ 

To interpret 34566 as the number of counts stored in accumulator two, rotate 34566 right one bit to obtain the following 16 bit number: AC2-2 AC2-3 AG2-4 AC2-5 AC:-13 AC2-12 AC2-11 AC2-10 AC2-9 AC2-8 AC2-7 AC2-6 AC2-15 AC2-14

HEASURDIENT # J4502

ACCUPATATOR 3

	EVEN HAIN FRANCES	N FRAMES						OS GROW							
												•	,	_	c
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	96	3.5	20	23	22	21	ړه	27	<b>9</b> 2	25	24	2,	2,		2,
•		<u>'</u>													
403-14	AG-13	AC3-12	ACT-14 ACT-13 ACT-12 ACT-11 ACT-10	AC3-10	AC3-9	8-8A	AG-7	AC3-6	AG3-5	AC3-6	AC3-3	AG-2	ACJ-2 ACJ-1	AG-0	7-E7
												-			

ACS-15 is the MSB of accumulator three  $(2^{15})$  ACS-0 is the LSS of accumulator three  $(2^0)$ 

To interpret 34502 as the number of counts atored in accumulator three rotate 34502 right one bit to obtain the following 16 bit number.

			_
	9		
	<b>VB-7</b>		
	AG3-2		
	¥ 50 ×	3	
	4	}	
		2-2-4	
		3	
		/- CD *	
	1	AG-6	
		AG3-9	
		AC3-10	
-		11-69V	
		AC3-12	
		AG-13 AG-12 AG-11 AG-10 AG-9 AG-8 AG-1 AG-9 AG-1	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AC1-14	
		AC1-15 AC1-14	  -  -
	•	_	-

PRASURE/ENT # J4567

ACCUMILATOR 4

	ODD MAI	ODD HAIN FRANKS.													
	A MOON		ļ.					WORD SO							
-	9	5	4.	2,	,2	12	20	27	₂ ₂	52	24	2ء	22	21	20
7	2	7	•	$\left[ \cdot \right]$											36 777
AO6-14	A04-13	404-12	ACK-14 ACK-13 ACK-12 ACK-11 ACK-10	AC4-10	8-42V	AQ4-8	AC4-8 AC4-7 AC4-6 AC4-5 AC4-4	AC6-6	AQ:-5	AC4-4	AC4-3	AC4-2	AC4-1	ACK-2 ACK-1 ACK-U ACK-L	5

AC4-15 is the MSB of accumulator four  ${2^{15}}$ , AC4-0 is the LSB of accumulator four  ${2^0}$ 

To interpret 14567 as the number of counts stored in accumulator four, rotate 14567 right one bit to obtain the following 16 bit number:

75	
AC-1	
AC4-2	
AQ4-3	
484	
AQ-5	
AC6-6	
AC4-7	
AC6-8	
90808	
100	31-54
100	71-54
0. 77	71-57
	70-17
ACK-2	1-54 2-154
	7

MEASURPRENT # 34505

ACCUMULATOR 5

	EVEN HAIR FRANCS	FRANES													
	FORD 51	}						NCRD 52							
2,	26	25	24	23	22	21	20	27	₂ e	25	24	~	22	21	₂ 0
ACS-14 AC	ACS-14 ACS-13 ACS-12 ACS-11 ACS-10	AGS-12	AGS-11	AC5-10	ACS-9	ACS-9 ACS-8 ACS-7 ACS-6	AC5-7	1 –	ACS-5 ACS-4	ACS-4	ACS-3 ACS-2 ACS-1	ACS-2	1-834	ACS-0	ACS-15
	}														

ACS-15 is the MSB of accumulator five  $\binom{25}{2}$  ACS-0 is the LSB of accumulator five  $\binom{20}{2}$ 

To interpret 14503 as the number of counts stored in accumulator five, rotate 14503 :1ght one bit to obtain the following 16 bit number. ACS-1

ACS-12 ACS-11 ACS-10 ACS-9 ACS-8 ACS-7 ACS-6 ACS-5 ACS-4 ACS-3 ACS-2 ACS-13 ACS-14 ACS-15

Peasurient # 34568

ACCUMINATOR 6

ACS-15 is the NSB of accumulator six (2.2) AC6-0 is the 188 of accumulator wix  $(2^0)$ 

To interpret 34568 as the number of counts stored in secuentistor six, rotate 34568 right one bit to obtain the following 16 bit member:

AC6-13 AC6-12 AC6-11 AC6-10 AC6-9 AC6-8 AC6-7 AC6-6 AC6-5 AC6-4 AC6-3 AC6-3 AC6-2 AC6-1 AC6-0 AC6-14 ACS-15

#### 2.7 GEOMETRIC CONVERSION FACTOR

Based on geometric considerations and on preliminary comparisons with other experiments on ATS-6, the geometric factor (G) for ions is:

G = 16 * 10**(-4) cm cm ster

= (aperture area) * (aperture solid angle)

The value of G for electrons is one half of this, as one half of the electron aperture is covered to help prolong the sensor's life. This is necessary because the electron sensors are subject to much higher counting rates then the ion sensors.

The conversion factor (H), used in determining the differential energy flux, (where diff. E flux = cnt rate/H) is:

H = 3.2 * 10**(-4) cm cm ster ev/ev for ions. Where:

H = G * Energy Bandwidth

= delta(A) * delta(Omega) * delta(E)/E

= G * 0.2

The H factor has energy dependent corrections at low energies due to:

1) The post analysis acceleration of particles which occurs between the lens and the spiraltron. This acceleration causes factors of three variations in H which occur gradually around 1-3 keV for ions and about 0.1-0.3 keV for electrons. There are also some changes when

the secondary suppressor is turned off. (the suppressor can be turned off between 0-100 eV on the high energy detector head, and between 0-22 eV on the low energy detector head)

2) The 0.1-0.2 volt noise level on the high energy analyzing plates and the 0.01-0.02 volt noise on the low energy plates. For the high energy analyzer, the plate noise becomes important below 5 ev., while for the low energy analyzer it is important below 0.1 ev.

H also has corrections in the electron data at higher energies due to the variations of the spiraltron efficiency with energy.

Figure (to be created) shows the results of the combined correction of H, Eff(lens) and Eff(spiraltron) on the raw count rate.

The mono-energetic angular resolution of the orthogonal planes of each detector is about 2.5 degrees for the narrow plane and 5 degrees for the wide plane. These angular resolutions spread by a factor of two for a full spectrum of energies.

#### 3.0 DATA FORMATS & PROCESSING

#### 3.1 SCATHA COMMON BLOCKS

#### CONTROLS AND FLAGS

COMMON/UNITS/ ~ Assigns logical devices to actual devices.

ITD = tape drive for input tape (MT2: or MT3:)

ITU = logical unit for tape

IOUT = logical unit for picture file on disk

LABEL = logical unit for label file on disk

IDEV = disk drive for picture and label files (DB1: or DB0:)

IPU = logical unit for lists of files one through four

COMMON/CALCE (CALculate Energy) ~ Contains the M value and energy value for each .25 second time interval. M is the number of energy steps since the end of the last energy scan.

MVALUE = M value for each .25 second interval

EHIGH = NS detector temperature corrected energy value for each .25
seconds

ELOW = EW detector temperature corrected energy value for each .25 second.

M = current M value

PRSP = previous energy step

PRPRSP = previous, previous energy step

COMMON/OPCL/ (OPen, CLose) - Contains the information that routines SCOPEN and SCCLOS use to open and close disk files.

COMMON/TAPCOM/ - Contains the event flag and status words in which RTAPE (RTAPE is the routine which reads a given tape) returns the status of the tape read. (See COMMON/STATUS for more info. about status)

COMMON/BUFFER/ - Contains buffers where RTAPE puts the records from tape.

#### DATA

COMMON/COUNTS/ - Contains the raw counts and accumulator gatings. In NOR-MAL MODE of operations, the accumulator assignments are:

IACC1 = NS Ions (sampled every .25 second)

IACC2 = NS Electrons (sampled every .25 second)

IACC3 = EW Ions (sampled every .25 second)

IACC4 = EW Electrons (sampled every .25 second)

IACC5 = Fixed Ions (sampled every .125 second)

IAG = Accumulator gating

The state of the s

NOTE: IACC does not equal the variable ACCX found in subroutine CTRT.
see COMMON/CTRT/ for more information on IACC and ACCX.

UN-NORMAL MODES - Each of the accumlators can be used to sample different directions and particles than it normally does. This enables one particular form of data to be sampled more often. These un-normal modes occur only during dwell cycles, not during scan. See page 70 of the current SC-9 Handbook for a listing of all modes and their commands.

COMMON/CTRT/ (Count Rate) - Contains the count rate (counts per second) as generated by CRATE. (CRATE computes dead-time, background and bias corrected count rates)

NOTE: Raw data from the tape is put into integer variables IACC1-5. These raw counts are then converted by CRATE into floating point count rates and put into variables ACC1-5. Then, in order to list the count rates without a decimal they are converted to double precision integer format and put into variables DACC1-5. DACC1-5 are equivalenced to ACC1-5 in subroutine PRPROC.

ACCX = counts per second in Real format

· 大学を

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DACCX = counts per second in Integer format

COMMON/DISTRB/ - Contains the calculated distribution functions for the

#### five detectors.

DFNSEL = Distribution Function, NS Electrons

DFNSIO = Distribution Function, NS Ions

DFEWEL = Distribution Function, EW Electrons

DPEWIO = Distribution Function, EW Ions

DFFXIO = Distribution Function, Fixed Ions

COMMON/MAG/ - Contains the raw Magnetometer data. X,Y,Z coarse and fine values and the direction of the X,Y,Z vectors.

COMMON/MAGCS/ - Contains the X,Y and Z coordinates of the Magnetic Field in the Magnetometer's coordinate system. It also contains the magnitude of .he total vector and of the vector in the X,Y plane.

MAGX = X component of magnetic field

MAGY = Y component of magnetic field

MAGZ = Z component of magnetic field

MAGTOT = magnitude of the total X,Y,Z vector

MAGPER = magnitude of the X,Y vector (this is the plane perpendicular to the spin axis)

COMMON/ROTATE/ - Contains rotational information.

NSP = NS detector analog position

1

IEWP - EW detector analog position

NSPC = NS detector position counter

IEWPC= EW detector position counter

ICWNS = counter clockwise NS detector. It equals 1 if
NS detector moving CCW, equals 0 if moving CW.

ICWEW = counter clockwise EW detector. It equals 1 if
EW detector moving CCW, equals 0 if moving CW.

NSLL = NS detector position lower limit (validity of data not yet checked)

TEWLL = EW detector position lower limit (validity of data
 received not yet checked)

IEWUL = EW detector position upper limit (validity of data
 received not yet checked)

NSPS = NS detector park, sweep wag (validity of data received not yet checked)

IEWPS = EW detector park, sweep wag (validity of data
 received not yet checked)

COMMON/PROBEV/ - contains probe voltages from SC-2 experiment. (validity of data received not yet determined)

COMMON/SC10/ - Contains field data from SC10 experiment. (validity of data received not yet checked)

IEC1-4 = electric channels 1-4

IMC1-4 = magnetic channels 1-4

IPCV = + calibration verification

INCV = - calibration verfication

MCNV = magnetometer common mode

MODE = mode

COMMON/SC4E - Contains electron gun data from SC-4 experiment. Validity of dat checked by R.C.O. 1980. (See COMMON/SC4I/ for more information)

IBCF = beam current flags 1-5

IBON = beam on/off

IBDCF = beam duty cycle flag

IBFF1-2 = beam focus flags 1-2

IBCH = beam current high

IHVM = high voltage monitor

IBEF = beam energy flags 1-4

IVM1-2 = voltage monitor 1-2

COMMON/SC4I/ - Contains ion gun data from SC-4 experiment. Validity of data checked by R.C.O. 1980. (See COMMON/SC4E for more information)

IBCM = beam current monitor

NE = neutralizer emmission

ISNCM = satellite positive ion system (SPIBS) net current monitor

IDCUR = discharge current

IBVM = beam voltage monitor

RCM = keeper current monitor

KHVM = keeper high voltage monitor

IACM = accelator current monitor

IDCM = decelerator current monitor

NHCM = neutralizer htr current monitor

NBVM = neutralizer bias voltage monitor

COMMON/SOLAR/ - Contains solar array currents. Validity of data checked by R.C.O. 1980.

OMMON/TIMEN/ - Contains time and the variables to be used in energy calculations.

IGT = ground time in milliseconds

IDC = deflection control counter (energy step number)

ITNS = temperature NS detector head

ITEW = temperature EW detector head

ITMB = temperature of Motor Box

ITPCU = temperature of Power Cond. unit

IMP = motor power

NOTE: The validity of the data contained in the following variables

has not yet been determined.

IDN = number of dwells per cycle

ID1 = initial dwell step

IDT = dwell time

IDS = dwell step size

COMMON/STATUS/ - Contains the status of Latching and Magnitude commands.

For a description of the Latching commands see page 16 of the current SC-9

Handbook. (see page 14 for spiraltron bias voltage) The last command sent
to the instrument is used to determine its status.

- LC1 = status Latching commands 1-7. These give status of commands 7002-7020.
- LC2 = status Latching commands 8-14. These give status of commands 7021-7041.
- MC1 = status of the Magnitude commands 1-8. Magnitude commands start with command number 7100.
- MC2 = status of the Magnitude commands 8-14. Magnitude commands start with command number 7100.

COMMON/SUBCID/ - contains the subcommand Id, one byte for each eighth of a second.

COMMON/VOLT/ - Contains deflection and spiraltron voltages. The selected energy step equals a fudge factor multiplied by the deflection voltage.

- IDV(1) = + deflection voltage NS detector
- IDV(3) = + deflection voltage EW detector
- IDV(5) = + deflection voltage Fixed detector
- IDV(2) = deflection voltage NS detector
- IDV(4) = deflection voltage EW detector
- IDV(6) = deflection voltage Fixed detector

NOTE: The above variables contain the true voltage on the spiraltron assembly plates. They are outputted every 16 seconds and can be used to check the Cl Correction. One voltage variable is for the top plate of the spiraltron assembly and the other is for the bottom plate.

- ISV(1) = spiraltron voltage NS detector
- ISV(2) = spiraltron voltage EW detector
- ISV(3) = spiraltron voltage Fixed detector

#### ORBIT ATTITUDE DATA

COMMON/PITCHA/ - Contains pitch angle information.

PAFXD = Fixed detector pitch angle computed every .25 second

PAEWD = EW detector pitch angle computed every .25 second

PANSD = NS detector pitch angle computed every .25 second

NOTE: The following variables are computed every second.

LVSNSX = look vector, space craft frame, NS detector, X coordinate

LVSNSY = look vector, space craft frame, NS detector, Y coordinate

LVSEWX = look vector, space craft frame, EW detector, X coordinate

LVSEWY = look vector, space*craft frame, EW detector, Y coordinate

LVSEWZ = look vector, space craft frame, EW detector, Z coordinate

LVSFXX = look vector, space craft frame, Fixed detec, X coordinate

LVSFXY = look vector, space craft frame, Fixed detec, Y coordinate

LVSFXZ = look vector, space craft frame, Fixed detec, Z coordinate

DANS = detector angle, NS detector

DAEW = detector angle, EW detector

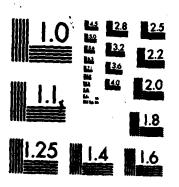
COMMON/EPHEM/ - Contains values found in the ephermeris file. The following values are taken every hour, 0-24, from the ephemeris file in subroutine F4PROC and are used in SCLABL.

RADIUS = radius in earth radii

LOCTIM = local time

MAGLAT = magnetic latitude

HANDBOOK FOR UCSD SC9 SCATHA AURORAL PARTICLES EXPERIMENT(U) CALIFORNIA UNIV SAN DIEGO LA JOLLA SPACE PHYSICS LAB S DEFOREST ET AL. AUG 80 F04701-77-C-0062 F/G 22/1 AD-A129 297 NL UNCLASSIFIED



MICROCOPY RESOLUTION TEST CHART
MATIONAL BUREAU OF STANDARDS-1963-A

#### 3.2 SC9 TAPE LISTING

The tape listing gives day, year, time, particle count rates, magnitude of the magnetic field vectors, detector position, computed distribution functions, detector pitch angles, detector energy and the energy step number. Figure (to be created) shows a typical output page. At the top of the listing is the year, day, start and end time of the listing and the day the listing was created. The Ground time in seconds, and in hours, minutes and seconds is outputted every 16 seconds. The variable SUBCOMID (TBD) is also given every 16 seconds. So far it has always been set equal to zero.

Count rates are given for the High Energy Detectors (NS and Fixed) and for the Low Energy Detector (EW). The accumulator assignments when in scan mode are:

ACC1 = NS Ions

ACC2 = NS Electrons

ACC3 = EW Ions

ACC4 = EW Electrons

ACC5 and ACC6 = Fixed Detector (two readings per 1/4 second)

Nominally, these accumulator assignments are the same during a dwell period. However, as each accumulator can be used to sample different directions and particles than normally assigned to them, there are eight different accumulator assignment modes available. Examples

of these modes are: Fast Ion, Super Fast Ion, etc... (see page 48 for the current SC-9 Handbook for a table of all modes and their commands)

The energies of the High Energy and Low Energy Detectors are given in eV. The High Energy values are not given until after the first dwell period of the listing. This is because the High Energy values must have the Cl energy correction, which is dependent upon M. As M is the number of steps since the last dwell, one dwell must occur before the Cl corrected High Energy values can be determined.

The distribution function in (sec**3) * (KM**-6) is given. As above, the values for the High Energy Detectors are not given until after the first dwell period.

#### LIST OF VARIABLES

IDC = Energy step number

MAGTOT = magnitude of the total magnetic field vector

MAGX = magnitude of the X component of the magnetic field

MAGY = magnitude of the Y component of the magnetic field

MAGZ = magnitude of the Z component of the magnetic field

HIPC = high energy head position counter

HIP = high energy head position (voltage)

TOPL = low energy head position counter

LOP = low energy head position (voltage)

PAHI = pitch angle high energy detector (NS Detector)

PALO = pitch angle low energy detector (EW Detector)

PAFXD = pitch angle fixed detector

NOTE: The pitch angle is defined as the angle between the particle velocity vector and the mangetic field direction. (see figure (to be created)) The particle velocity direction is 180 degrees to the look direction of the detector. A negative direction is given when the detector is looking to the earthward side of the magnetic field line.

M = number of energy steps since last dwell

#### 3.3 SPECTROGRAM DESCRIPTION

Spectrograms give a grey scale representation of the detector count rates with lightness, or intensity, as a function of the count rate. The two axes used on the spectrogram are energy versus time. Presently, the magnitude of the total magnetic field vector is plotted along the top of each spectrogram. Any or all of the five detectors can be placed on the same spectrogram. The user also has the option of selecting the pitch angles for which he wants the data to be displayed. (include several spectrograms here as examples)

#### AXES LABELING

The energy axis on the sides of a spectrogram is a combination of linear and then logarithmic scales. For the High Energy detector, the scale is linear from 0-10 eV and logarithmic from 10 eV to 80 keV. The Low Energy detector scale is linear from 0-0.2 eV and logarithmic from 0.2-1700 eV. The time axis on the bottom is in universal time, and usually specifies hours and minutes.

#### INTENSITY

The intensity scale of the spectrograms runs from 0-31. (integer

values) The raw counts are converted to this scale through the use of a table of conversion values. To develope this table, the biased log of the raw count rate is computed for a specified value of bias and background subtraction. Biased log(cnt rate) =

999.9 * log10[ ( DTCR - background ) + Bias ]
Where DTCR = Deadtime corrected count rate. (Default value for deadtime is 3.5 E-6 sec. This value can be changed in ACCESS)

NOTE: If (DTCR - Background) is negative, the Biased log(cnt rate) is set equal to 900. (this value can be changed in ACCESS) Also, if the background subtraction is absent, it is taken to be zero. Because of the way the program Blog (it computes the biased log) handles a bit shift, the background must be an even number. If it is not, the spectrogram program makes it so.

This biased log, computed once for the ions and once for the electrons, is then used to set up the intensity conversion table. The conversion table is also dependent upon the specified contrast.

If the converted raw counts are too large for the intensity scale, the user can either have the scale cycle or saturate at maximum intensity. In the cycle mode, the intensity reaches maximum lightness, then recycles back to black to start over again.

4

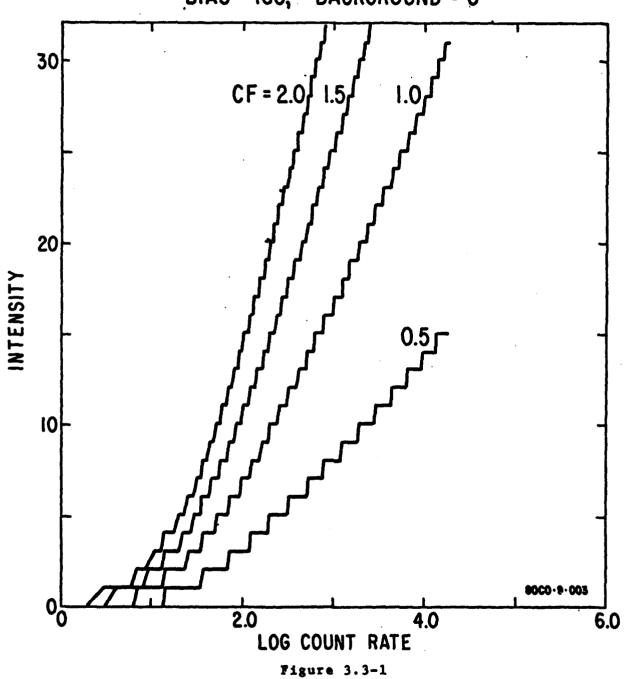
Figures (3.3-1) and (3.3-2) are two plots which show how the curve of the Intensity versus the Riases log(cnt rate) varies as one changes

either the hias or the contrast (CF). Varying the bias causes the curve to shift its starting point, while varying the contrast changes the slope of the curve.

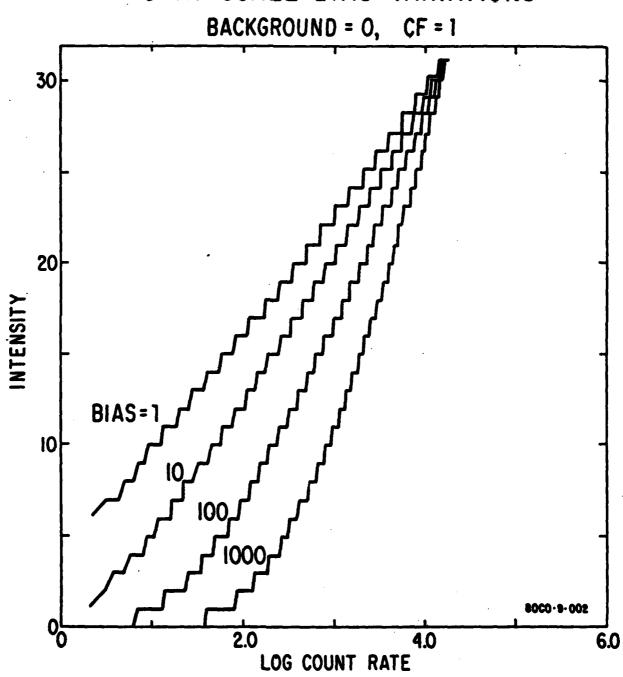
#### MAGNITUDE OF MAGNETIC FIELD PLOTS

## SCATHA SPECTROGRAM GRAY SCALE CONTRAST VARIATIONS

BIAS = 100, BACKGROUND = 0



## SCATHA SPECTROGRAM GRAY SCALE BIAS VARIATIONS



### APPENDIX 1

AFG1 ELECTRON AND ION GUN EXPERIMENT (SC4)

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### SCA DOCUMENTATION

### AFG1 ELECTRON AND ION GUN EXPERIMENT (SC4)

SC4 is the AFGL electron(-1) and ion(-2) qun experiment. Sufficient telemetry should be available to enable SC9 experimenters to determine the instrumental mode, and to understand the resulting potential fluctuations.

### SC4-1

The electron gun operates in an uncomplicated fashion, simply ejecting electrons at the specified current and voltage. Substantial positive potential excursions have been caused, up to the beam potential. More frequently, the ambient low energy electron flux appears to be sufficient to balance the beam current at positive spacecraft potentials below the magnitude of the beam potential.

The common block containing this information is SC4E.

COMMON /SC4E/ CONTAINS ELECTRON GUN DATA FROM SC-4 EXPERIMENT COMMON/SC4E/IBCF(5,8), IBON(2), IBDCF(3), IBFF1(2), IBFF2(8), IBEF(4,

1 IBCH(16), IHVM, IVM1, IVM2 BYTE IPCF, IBON, IBDCF, IBFF1, IBFF2, IBEF

C IBCF=BEAM CURRENT FLAGS 1-5 IBON=BEAM ON/OFF

IBDCF=BEAM DUTY CYCLE FLAG IBFF1-2=BEAM FOCUS FLAGS 1-2

C IREF=BEAM ENERGY FLAGS 1-4

C IBCH=BEAM CURRENT HI

C INVM=HIGH VOLTAGE MONITOR

C IVM1-2=VOLTAGE MONITOR 1-2

C

The data are to be interpreted with the following tables:

### Ream Current Flag (IRCF)

01111	13.0 ma
10111	6.0 ma
11011	1.0 ma
11101	0.1 ma
11110	0.01 ma
11111	0.001 ma

### Beam Energy Flags

1100	3 kv
1100	3.nn kv
100	1.50 kv

0000	0.50 k	v
0010	r.30 k	v
0001	0.15 k	v
0011	0.05 k	v

### Beam On Off Flag

on off

### Duty Cycle Flag

1 100% 0 5.25% (inoperable after day 69, 1979)

### Focus Flags

00	hi
10	medium
01	low
11	not allowed

### Cap Flag

これの事を受いるところの意とないます。

Act of the second

cap on cap off (not valid)

### Beam Current (IBCH)

IPCH should be multiplied by .02 to obtain the telemetry voltage in volts. Four volts is full scale. The scale changes with the selected voltage, so IPCH=200 implies the selected current (IPCF) is being emitted.

### SC4-2

The ion dun is more complicated than the electron gun in operational modes and in data interpretation. In particular, the telemetry values are non-linear functions of the instrumental voltages and currents. Graphs for each value are included. In each case the earth Telemetry values (E T/M, V) on the graphs are .02 times the integer telemetry value found on the tape.

The ion gun parameters are found in common block SCAI. They are interpreted as follows:

The beam voltage (IBVM) generally equals the set value, but the telemetry wanders as the beam current varies. The beam current telemetry (IBCM) is correct. The keeper current (YCM) may have an offset, and may vary as the beam setting is varied or with time.

MBVM=NEUT BIAS VOLTAGE MONITOR

MHCM=MEUT HTP CURRENT MOMITOR

Note that the neutralizer emission current (ME) and the net current (ISNCM) have a sign associated with them, and 2.5 volts (125 counts) corresponds to zero current.

### APPENDIX 2

SC10 ELECTRIC FIELD MONITOR

### DESCRIPTION SC10

### SC10 ELECTRIC FIELD MONITOR

The instrument is a NASA-supplied double floating ensemble consisting of three payload packages: SC10-1 is the internal electronics mechanism. SC10-2 is a 50-meter long, 1/4 inch in diameter, extendable antenna located on the Spacecraft at 236 degrees. It is often noted as the +Y Antenna. SC10-3 is also a 50-meter long extendable antenna and it is located at 56 degrees. It is often noted as the -Y Antenna.

The inner 30 meter section of the two booms are coated with Kapton insulation to move the outer 20 meter active probe areas away from the plasma sheath of the Spacecraft as this can overlap with the ambient plasma and contaminate probe measurements. When fully deployed, the two antennas will form a 100 meter (end to end) dipole. The instrument detects DC Electric Field strengths in the range of 0.1 to 20 mV/m and AC Fields of 1 to 100 micro V/m at frequencies between 3 and 10 Hz.

The probe on the end of each antenna will be used to measure AC and DC Electric Fields as a Common Mode Voltage and as a Differential Voltage. In the Common Mode, each antenna will be used seperately to measure the Space Craft potential by measuring the absolute potential between the Space Craft and the ambient plasma. This signal will monitor Spacecraft charging events. For the Differential signal, the potential induced between the dipole pair of probes is measured in order to determine the Electric Fields in the ambient plasma.

The 100 meter dipole antenna is also shared by the SC1-7 and SC1-8 experiments. In addition, one of the Fourier digitized waveform analizers can be ordered to detect the signal of the X component of the SC11 magnetometer experiment. (This data is received in the telemetry words K4012 - K4015. Word K2003 signifies which instrument is being monitored.) When operating in the Magnetic Field Mode, morphological data realtive to the E and B noise at the orbit of the Spacecraft will be obtained. (From "Description of Space Test Program P78-2, Spacecraft and Payloads" page 53; "Telemetry Requirements Docquement, page 2.11-11; and the "Orbital Requirements Docquement, Volume 1)

### OPERATIONAL ASPECTS

The extension of the two antennas was not begun until several weeks after the satelite's insertion into orbit. This was to allow the other experiments (which are sensitive to the Satillite's plasma sheath) a base line period without the interference created by the two long floating probes. The antennas were then deployed in three stages in order to study the probe characterisitics of the antennas with varying degrees of overlap from the Spacecraft's plasma sheath. The boom

was extended to 10 meters on day 56, and was extended to its full lenght on day 68. (added 7-30-80 S.J.) The antennas have space brush material in the deployment motors to allow additional changes in the antennas' length once they have been fully deployed. However, the antennas will probably be kept at their full deployment of 100 meters for the lifetime of the satillite. (From "Description of Space Test Program P78-2, Spacecraft and Payloads", page 55)

### SCIENTIFIC OBJECTIVES

The SC10 Electric Field Monitor will be used to observe the steady state convectional Electric Fields that are known to exist at the Spacecraft's orbit. The instrument will also measure Electric Fields resulting from transient events such as electrostatic discharge on selected Spacecraft insulating surfaces and to monitor Space Vehicle charging. Data from the instrument will be used to correlate data from the other engineering experiments on the satillite and, along with the SC1 Antennas, to characterize electromagnetic interference in the vicinity of the Spacecraft.

### TELEMETRY SPECIFICATIONS

Data from SC10 is telemetered in three different formats: 1) Directly in digitized waveform; 2) in the Fourier Domain using digitized Fourier analyzed wave; 3) and in Real Time. (NOTE: UCSD receives only the Fourier digitized waveform) The SC10-3 Antenna (-Y Axis) is measured directly in the Common Mode using three different voltage ranges: -15 V, -300 V and -5,000 V. The SC10-2 Antenna (+Y Axis) is also measured directly in the Common Mode, but with only one voltage range of +15 V. (This favoring of the negative axis is due to the fact that the potential of the Spacecraft with respect to the probes is usually negative. This negative relative potential is caused by which the different materials the Spacecraft and probes are constructed of.)

The Differential signal between the two antennas is also monitored directly with several voltage gains which appear as DC Low (x 0.025), DC High (x 0.25), and AC (x 2.5) in the telemetry data. Both the Common Mode signal and the Differential signal are monitored in the Fourier Domain as RMS signals in four frequency bands which vary from 0.1 to 2000 Hz.

For the Real Time mode, a wide band FM-FM Link is available on command only for the Differential signal. This format is planned for operations up to three hr/day in order to cover a number of different Local Time Regions. The following table describes the three different formats.

FORMAT	- · · · · - · · · · · · · · · · · · · ·	
	Danner > + / 1 P 11	Colon, a) 4 A ASE
Direct	Ranges: a) +/- 15 V	Gains: a) X 0.025
	b) -300 V	b) X 0.25
	c) -5,000 V	c) X 2.5
Fourier	Freq. a) 0.1 to 1 Hz	Freq. a) 0.1 to 1 Hz
	Bands: b) 1 to 2 Hz	Bands: b) 1 to 2 Hz
	c) 2 to 20 Hz	c) 2 to 20 Hz
	d) 20 to 2000 Hz	d) 20 to 200 Hz
Real Time	Not Telemetered	DC to 200 Hz V.C.C.

### DESCRIPTION OF TELEMETRY WORDS

K2001 - Calibration Verification of SC10-2 Antenna, Range: 0 - 5 Volts DC K2002 - Calibration Verification of SC10-3 Antenna, Range: 0 - 5 Volts DC K2003 - Magnetic/Common Mode Verification (signifies if the received output is from the SC10 Spectometer or from the X Axis of the SC11 Magnetometer) K2004 - Mode K2005 - Full Extension of SC10-2 Antenna K2006 - Full Retraction of SC10-2 Antenna K2007 - Full Extension of SC10-3 Antenna K2008 - Full Retraction of SC10-3 Antenna The following words must be converted to Volts DC using the equation: Volts= 0.020 * (measurement) Volts DC The Range of these words is 0 - 5.1 Volts DC. K4001 - DC High (For Direct Format of Differential signal) K4002 - DC Low (For Direct Format of Differential signal) K4003 - AC (For Direct Format of Differential signal) K4004 - Common Mode 1 (-) (For Direct Format of SC10-3 Antenna, DC Low) K4005 - common Mode 2 (-) (For Direct Format of SC10-3 Antenna, DC K4006.- Common Mode 3 (-) (For Direct Format of SC10-3 Antenna, AC) K4007 - Common Mode 1 (+) (For Direct Format of SC10-2 Antenna, DC Low) K4008 - Electric Channel 1, Frequency band from 0.1 to 1.0 Hz (For Differential signal) Fourier Format of K4009 - Electric Channel 2, Frequency band from 1 to 2 Hz) (For Fourier Format of Differential signal) K4010 - Electric Channel 3, Frequency band from 2 to 20 Hz (For Fourier Format of Differential signal) K4011 - Electric Channel 4, Frequency band 20 to 200 Hz (For Fourier Format of Differential signal)

The next four words contain either the signal from the Fourier Format of the Common Mode or the output from the X Axis of the SC11 Magnetometer (in solar magnetospheric coordinates). See either the

constant "MV" or the word K2003 to determine which output is being monitored.

K4012 - Magnetic Channel 1 (Frequency Band from 0.1 to 1.0 Mz)

K4013 - Magnetic Channel 2 (Frequency Band from 1 to 2 Hz)

K4014 - Magnetic Channel 3 (Frequency Band from 2 to 20 Hz)

K2015 - Magnetic Channel 4 (Frequency Band from 20 to 200 Hz)

K4018 - Length Pot(-) (For determening the length of the extendable SC10-3Antenna)

K4019 - Length Pot(+) (For determening the length of the extendable SCI0-2Antenna)

The following words are not to be converted to Volts DC.

K4016 - Motor temperature of Sc10-2 Antenna

K4017 - Motor Temperature of SC10-3 Antenna

(K4016 and K4017 should be converted to degrees Centigrade by a TBD equation (equation 4.7.13-1))
K6001 - Broadband Electric Field (BEF) Sources

### DEFINITION OF CONSTANTS

EX (Extension): EX will equal either "+E" or " ", depending upon whether word K2005 equals one or zero. EX will also equal either "-E" or " ", depending upon whether word K2007 equals one or zero.

RE (Retraction): RE will equal either "+R" or " ", depending upon whether word K2006 equals one or zero. RE will also equal either "-R" or " ", depending upon whether word K2008 equals one or zero.

DAT (Data(?)): DAT will equal either "+CL" "+SG", depending upon whether word K2001 equals one or zero. DAT will also equal either "-CL" or "-SG" depending upon whether word K2002 equals one or zero.

MV (Magnetic): MV will equal either "MG" (magnetic) or "CM", (Common Mode) depending upon whether word K2003 equals one or zero.

MODE: MODE equals either "ON" or "OFF", depending upon whether word K2004 equals one or zero.

SYST = System Time in integer seconds.

**

VTCW = Vehicle Time Code Word in integer seconds (from same Main Frame as DC High)

FRM = Frame Count from T8300 in same Main Frame as VTCW

SANG = Angle in degrees (0 - 360) between SC10-2 Antenna (+Y Axis) and

the plane defined by Space Vehicle spin axis and the sun Space Vehicle

line at time of sampling K4001. (The position of the +Y Antenna should be calculated to an accuracy of one degree with respect to the sun at time of measurement group reading)

### APPENDIX 3

SC11 MAGNETIC FIELD MONITOR

一年 とい

### DESCRIPTION

The SCll Magnetic Field Monitor is a tri-axial fluxgate magnetometer with its sensors located on the end of a four meter long boom. The boom is along the spacecraft's negative Y axis (270 degrees) and the three sensor heads are accurately aligned with the corresponding spacecraft axes with one axis parallel to the satillite's spin axis. Each axis sensor consists of a high permeability core which is magnetized to saturation by a solenoid and an AC generator. The outputs of each sensor is biased by 2.5 volts to give each sensor the range of -700 gamma to +700 gamma in measuring the magnetic flux density.

An error analysis by the spacecraft's manufacturer extimates that the absolute accuracy of the measurements of the ambient field along the space vehicle's X axis will be better than one gamma at one sigma confidence level. Errors in the Y and Z axes will be even less than in the X axis. (From: Telemetry Requirements Document, page 67)

The instruments booms were deployed on 2-22-79. (day 53) The magnetometer was also checked out on this day. It began taking data on day 54.

The spacecraft's spin enables the small magnetic field (a few tenths of a nano tesla) due to the spacecraft and any stray remanent fields at the location of the magnetometer to be corrected for in the Y and Z axes. Calibration of the field in the X direction will hopefully be obtained from comparisons between the data obtained from SC11 and data from the UCSD Auroral Particles Experiment. (one nano tesla = one gamma = one milligauss)

### SCIENTIFIC OBJECTIVES

The data from SCll will be used to determine the magnitude and orientation of the magnetic field in the instrument's sensor coordinates. This information will be used to correlate results from all of the charged partical dectors with the earth's magnetic field and to analyze the field aligned and distributed current systems in the region around synchronous altitude. The information will also be used to study the magnetosphere dynamics as it effects spacecraft charging. (From: "Description of the Space Test Program P78-2 Spacecraft and Payloads" 31 October, 1978; section 18, page 56 and the Telemetry Requirements Document, (TPD), section 3.5)

### MAGNETIC FIELD CALCULATIONS

The procedure for converting the analog outputs from the instrument's three sensors into the X,Y and Z components of the magnetic

### field is as follows:

High resolution data from measurements L4001 thru L4006 and measurement L4010 will be used to compute the X,Y and Z components of the magnetic field in the magnetometer's coordinates using a least square fit for each 15 second segment of data as follows:

```
Bx = Ax * [F(Vxc) + (Vxf - 0.473)/Gx - Vox] + Cx + Kx(W)

By = Ay * [F(Vyc) + (Vyf - 0.474)/Gy - Voy] + Cy + Ky(W)

Bz = Az * [F(Vzc) + (Vzf - 0.477)/Gz - Voz] + Cz + Kz(W)
```

### WHERE:

Vxc= L4001 converted to volts Vyc= L4003 converted to volts Vzc= L4005 converted to volts

Vxf= L4002 converted to volts

Vyf= L4004 converted to volts

Vzf= L4006 converted to volts

Volts= 0.020 * (Decimal representation of L40XX)

### F(Vxc), F(Vyc) and F(Vzc) are found from the following table:

Vxc,Vyc or Vzc	F(Vxc)	F(Vyc)	F(Vzc)
0.00 - 0.15	-0.0014	-0.0016	-0.0014
0.16 - 0.47	0.3111	0.3109	0.3111
0.48 - 0.78	0.6235	0.6235	0.6233
0.79 - 1.09	0.9362	0.9362	0.9360
1.10 - 1.41	1,2486	1.2483	1.2491
1.41 - 1.72	1.5613	1.5610	1.5618
1.73 - 2.03	1.8738	1.8737	1.8741
2.04 - 2.34	2.1865	2.1864	2.1969
2.35 - 2.65	2.5001	2.4995	2.4994
2.66 - 2.96	2,8128	2.8122	2.8121
2.97 - 3.28	3.1253	3.1250	3.1244
3.29 - 3.59	3,4380	3.4377	3.4372
3.60 - 3.90	3,7505	3.7498	3.7503
3.91 - 4.21	4.0632	4.0625	4.0631
4.22 - 4.52	4.3758	4.3754	4.3754
4.53 - 4.84	4,6886	4.6882	4.6882

(These are the revised values of F(Vxc), F(Vyc) and F(Vzc) as of 7-13-79 obtained through private correspondence with the experimentor.)

Ax= 192.58 Ay= 192.37 Az= 192.72

Kx(W), Ky(W) and Kz(W) are temperature correction factors using an interpolation table for each Kx, Ky or Kz. W is a thermister output and is the word L4010 converted to volts. For all values of W, Kx(W) and Kz(W) equal zero. The value of Ky(W) is to be found by linear interpolation between the following points:

w (Volts)	Ky (W) (Gamma	
0.0	0.0	
3.7	0.0	
4.8	0.8	
5.1	1.02	

(There is a discrepancy between the TRD and the Orbital Requirements Document (ORD) as to which functions equaled zero and which needed the interpolation table. According to the experimentor, the TRD is correct and Ky(W) needs the table.)

Gx= 12.991 Gy= 12.991 Gz= 12.991 Vox= 2.491 Voy= 2.513 voz= 2.499

Cx,Cy, and Cz are the correction for the spacecraft field for each axis and may require modification after more data has been obtained. The values given are those received from the experimentor as of 7-13-79. In the first three months, samll fluctuations were seen by the experimenor in either the instrument zero or the spacecraft fields. The Y component has varied from -0.5 to +0.6 gamma, and probably cannot be corrected for general production runs. The Z component has ranged from -0.8 to -0.3 gamma, and Cz has been set at -0.5 gamma. The correction in the X field remains to be determined from comparisons between data obtained from the magnetometer and the UCSD Auroral Particles Experiment.

Cx= 0.0

These values of Bx,By and Bz shall be converted from sensor coordinates to the spinning space vehicle reference coordinates using:

Bs = R * B

where R is the appropriate transform matrix determined from SC11 boom alignment measurements.

[R] = .99980 .01390 .01304 -.01307 .99990 .00209 -.01307 .00227 .99991

(This matrix was received from the experimentor on 7-13-79)

The X, Y, and Z components of the magnetic field shall be converted from the spinning space vehicle coordinates into a non-spinning cartesian coordinate system (despun axis) using the following equation:

Bd= N * Bs

Where N is the appropriate matrix descrived as follows:

where:

Alpha = w * 0.75 degrees

w is the spin rate in rpm about the plus X axis.

This relationship is accurate for 3 >>> 0.5.

Because the spacecraft is precessing about the Z axis, one also needs to obtain the direction of the angular momentum vector from SAMTEC in order to compute the Despun Coordinate System more accurately. (The above algorithim for computing the various coordinate systems from the telemetry data was obtained from the TRD section 4.1 and from the ORD pages 4.7.14-1 thru 4.7.14-3.)

An alternate method of calculating the magnetic field is to use the low resolution data. This is primarily for contingency and cross-checking purposes. Measurements L4007 thru L4009 are used for this. Use the following equations to calcuate the magnetic field in sensor coordinates:

Pxl = Ax * (Vxl - Vox) + Cx + Kx(W) Pxl = Ay * (Vyl - Voy) + Cx + Kx(W)Pxl = Az * (Vxl - Vox) + Cx + Kx(W)

Where the constants are the same as described for the high resolution equations. (From: TRD, section 4.2)

### FLUXGATE MAGNETOMETER

The fluxgate action of the magnetometer is based on the time variation of the core permeability. The sensing element of a magnetometer is a core of permalloy or of a similiar material which has a high permeability and so becomes magnetically saturated in very low magnetic fields. A periodically changing magnetic field is applied to the core by a solenoid and a generator which magnetises the core to saturation. As the core becomes saturated, the permeability of the material is reduced and so the permeability varies periodically as the core switches from one polarity of saturation to the other. As the permaability has its minumum value when the magnetising current has its peak negative and positive values, the permeability of the core will have twice the frequency of the magnetising current. The output signal contains a component of this second harmonic of the magnetising frequency and this component is proportional to the component of the ambient magnetic field along the axis of the secondary winding. "Fluxgate Magnetometers" by F. Primdahl, Plasma Group, Danish meteorological Institute, Technical University of Dennmark; TRD, page 67; McGraw-Hill Encyclopedia of Science and Technology, 1971, volume 8)

中一点

APPENDIX 4

ECLIPSE TIMES

### ECLIPSE TIMES

### APPENDIX 4

### 1979 SPRING ECLIPSE

DATE	PEN. ENTRY	IJMB. ENTRY	UMB. EXIT	PEN. EXIT
3-16-79	20:45:39			20:59:00
	20:20:30	20:30:24	20:33:00	20:43:01
3-17-79	19:56:47	20:02:06	20:20:10	20:25:35
3-18-79	19:33:41	19:37:55	20:03:14	20:07:35
3-19-79	19:10:58	19:14:37	19:45:26	19:49:12
3-20=79	18:48:32	18:51:48	19:27:11	19:30:34
3-21-79	18:25:20	18:29:20	19:08:38	19:11:46
3-22-79	18:04:18	18:07:07	18:49:53	18:52:49
3-23-79	17:42:26	17:45:06	18:30:58	18:33:44
3-24-79	17:20:42	17:23:14	18:11:54	18:14:33
3-25-79	16:59:04	17:01:30	17:52:42	17:55:16
3-26-79 3-27-79	16:37:32	16:39:53	17:33:23	17:35:52
3-27-79	10:47:27	(PARTIAL LUNAR	ECLIPSE)	12:28:22
3-28-79	16:16:04	15:18:22	17:13:58	17:16:22
3-29-79	15:54:41	15:56:55	16:54:26	16:56:48
3-29-79	15:33:23	15:35:34	16:34:51	16:37:09
3-31-79	15:12:10	15:14:19	16:15:10	16:17:27
4-01-79	14:51:02	14:53:10	15:55:26	15:57:41
-	14:30:00	14:32:06	15:35:40	15:37:53
4-02-79 4-03-79	14:09:04	14:11:09	15:15:50	15:18:02
4-04-79	13:48:14	13:50:18	14:55;57	14:58:08
4-05-79	13:27:29	13:29:32	14:36:02	14:38:13
4-05-79	13:06:50	13:08:53	14:16:03	14:18:14
<b>4</b> = 1, = 1 2	<b>-</b>			

	10.46-16	12:48:19	13:56:02	13:58:13
4-07-79	12:46:16			
4-08-79	12:25:47	12:27:51	13:35:58	13:38:09
4-09-79	12:05:24	12:07:28	13:15:49	13:18:01
4-10-79	11:45:05	11:47:10	12:55:37	12:57:50
4-11-79	11:24:51	11:26:58	12:35:21	12:37:35
4-12-79	11:04:42	11:06:50	12:14:60	12:17:15
4-13-79	10:44:38	10:46:48	11:54:34	. 11:56:51
4-14-79	10:24:39	10:26:51	11:34:03	11:36:22
4-15-79	10:04:46	10:07:01	11:13:26	11:15:48
4-16-79	09:45:00	09:47:18	10:52:45	10:55:10
4-17-79	09:25:21	09:27:42	10:31:58	10:34:26
4-18-79	09:05:50	09:08:15	10:11:05	10:13:38
4-19-79	08:46:27	08:48:58	09:50:06	09:52:44
4-20-79	08:27:14	08:29:50	09:29:00	09:31:44
4-21-79	08:08:11	08:10:54	09:07:47	09:10:38
4-22-79	07:49:18	07:52:10	08:46:23	08:49:24
4-23-79	07:30:36	07:33:40	08:24:48	08:27:60
4-24-79	07:12:06	07:15:24	08:02:58	08:06:23
4-25-79	06:53:52	06:57:28	07:40:48	07:44:33
4-25-79	06:35:55	06:39:58	07:18:13	07:22:24
4-27-79	06:18:23	06:23:07	05:54:59	06:59:51
4-28-79	05:01:26	05:07:27	06:30:36	05:36:44
4-29-79	05:45:29	05:56:38	06:01:23	06:12:40
4-30-79	05:32:04			05:46:06

### 1979 FALL ECLIPSE

9-20-79	07:40:37			08:00:60
9-21-79	07:15:39	07:22:27	07:38:30	07:45:10
9-22-79	05:51:60	06:56:56	07:23:13	07:28:01
9-23-79	05;29;00	06:33:07	07:06:13	07:10:12
9-24-79	06:06:26	06:10:04	06:48:26	06:51:56
9-25-79	05:44:12	05:47:29	06:30:11	06:33:20
9-25-79	05:22:12	05:25:14	06:11:35	05:14:29
9-27-79	05:00:23	05:03:13	05:52:42	05:55:25
9-28-79	04:38:43	04:41:24	05:33:36	05:36:09
9-29-79	04:17:11	04:19:45	05:14:17	05:16:43
9-30-79	03:55:46	03:58:13	04:54:47	04:57:07
10-01-79	03:34:25	03:36:48	04:35:07	04:37:22
10-02-79	03:13:10	03:15:28	04:15:18	04:17:29
10-03-79	02:52:00	02:54:14	03:55:21	03:57:28
10-04-79	02:30:55	02:33:06	03:35:17	03:37:21
10-05-79	02:09:56	02:12:04	03:15:08	13:17:09
10-05-79	01:49:02	01:51:08	02:54:53	02:56:52
10-07-79	01:28:13	01:30:17	02:34:34	02:35:31
10-08-79	01:07:28	01:09:30	02:14:11	02:16:06
10-09-79	00:46:47	00:48:48	01:53:42	01:55:36
10-10-79	00:26:09	00:28:09	01:33:08	01:35:01
10-11-79	00:05:34	00:07:33	01:12:29	01:14:21
10-12-79	23:45:01	23:46:59	00:51:44	00:53:36
10-13-79	23:24:30	23:26:28	00:30:54	00:32:45
10-14-79	23:04:01	23:05:59	00:09:57	00:11:48
10-15-79	22:43:34	22:45:32	23:48:56	23:50:47

10-16-79	22:23:09	22:25:08	23:27:49	23:29:40
10-17-79	22:02:47	22:04:45	23:06:37	23:08:29
10-18-79	21:42:28	21:44:28	22:45:20	22:47:13
10-19-79	21:22:12	21:24:13	22:23:59	22:25:53
10-20-79	21:01:59	21:04:02	22:02:34	22:04:30
10-21-79	20:41:50	20:43:54	21:41:04	21:43:02
10-22-79	20:21:45	20:23:51	21:19:30	21:21:30
10-23-79	20:01:44	20:03:52	20:57:52	20:59:55
10-24-79	19:41:48	19:43:59	20:36:10	20:30:15
10-25-79	19:21:55	19:24:11	20:14:21	20:16:30
10-26-79	19:02:07	19:04:27	19:52:26	19:54:40
10-27-79	18:42:24	18:44:50	19:30:24	19:32:44
10-28-79	18:22:46	18:25:18	10:08:13	19:10:40
10-29-79	18:03:13	18:05:54	18:45:53	18:48:28
10-30-79	17:43:47	17:46:39	18:23:21	18:26:07
10-31-79	17:24:29	17:27:37	18:00:35	18:03:36
11-01-79	17:05:23	17:08:52	17:37:31	17:40:54
11-02-79	16:46:32	16:50:34	17:14:00	17:17:57
11-03-79	16:28:04	16:33:10	16:49:39	16:54:39
11-04-79	16:10:15			16:30:45
11-05-79	15:53:37			16:05:21

### 1980 SPRING ECLIPSE

	. m. 10. 11			17:36:20
3-13-90	17:18:11		17:12:46	17:19:08
3-14-80	16:54:31	17:00:46		
3-15-80	16:30:48	16:35:17	16:56:23	17:00:58
3-15-80	16:07:34	16:11:18	16:38:30	16:42:20
3-17-80	15:44:39	15:47:56	16:19:58	16:23:22
3-18-80	15:21:56	15:24:55	16:01:04	16:04:10
3-19-80	14:59:25	15:02:11	15:41:55	15:44:47
3-20-80	14:37:02	14:39:38	15:22:34	15:25:16
3-21-80	14:14:48	14:17:16	15:03:04	15:05:39
3-22-80	13:52:42	13:55:03	14:43:28	14:45:56
3-23-80	13:30:43	13:32:59	14:23:45	14:26:09
3-24-80	13:08:51	13:11:03	14:03:60	14:06:19
3-25-80	12:47:06	12:49:14	13:44:09	13:46:24
3-26-80	12:25:26	12:27:31	13:24:14	13:26:26
3-27-80	12:03:52	12:05:55	13:04:14	13:06:24
3-28-80	11:42:22	11:44:23	12:44:11	12:46:19
3-29-80	11:20:57	11:22:57	12:24:03	12:26:09
3-30-80	10:59:37	11:01:35	12:03:51	12:05:56
3-31-80	10:38:20	10:40:17	11:43:35	11:45:39
4-01-80	10:17:07	10:19:04	11:23:14	11:25:18
4-02-80	09:55:58	09:57:54	11:02:50	11:04:53
4-03-80	09:34:53	09:36:49	10:42:21	10:44:24
4-04-80	09:13:52	09:15:48	10:27:48	10:23:52
4-05-80	08:52:55	08:54:52	10:01:11	10:03:15
4-06-80	08:32:03	08:34:01	09:40:30	09:42:35
4-07-80	08:11:17	08:13:15	09:19:46	09:21:51
4-07-00				

4-08-80	07:50:36	07:52:35	08:58:58	09:01:05
4-09-80	07:30:01	07:32:02	08:38:06	08:40:15
4-10-80	07:09:32	07:11:35	08:17:11	08:19:22
4-11-80	06:49:09	06:51:14	07:56:12	07:58:25
4-12-80	06:28:52	06:31:00	07:35:08	07:37:24
4-13-80	06:08:41	06:10:52	07:13:59	07:16:17
4-14-80	05:48:36	05:50:50	06:52:43	06:55:05
4-15-80	05:28:36	05:30:55	06:31:20	06:33:46
4-16-80	05:08:44	05:11:08	06:09:49	06:12:21
4-17-80	04:48:59	04:51:29	05:48:10	05:50:47
4-18-80	04:29:23	04:32:00	05:26:21	05:29:06
4-19-80	04:09:58	04:12:45	05:04:23	05:07:17
4-20-80	03:50:47	03:53:44	04:42:13	04:45:18
4-21-80	03:31:50	03:35:02	04:19:48	04:23:09
4-22-80	03:13:10	03:16:43	03:57:05	04:00:45
4-23-80	02:54:53	02:58:55	03:33:54	03:38:04
4-24-80	02:37:05	02:41:55	03:09:59	03:14:57
4-25-80	02:19:59	02:26:33	02:44:29	02:51:11
4-26-80	02:04:12			02:26:09

Marie Committee of the section of the

APPENDIX 5

MEASUREMENT LIST

# P78-2 MEASUREMENT LIST MEADING DEFINITIONS

BEEN MADE SINCE THE LAST PUBLICATES THAT A MODIFICATION HAS BEEN MADE SINCE THE LAST PUBLICATION OF THE MEASUREMENT LIST. THE MODIFICATION STATUS BEGINS AT 1 FOR A P78-2 MEASUREMENT LIST IN THE ORD AND SEQUENTIALLY INCREASES FOR EACH P78-2 MEASUREMENT LIST PUBLISHED TILL THE P78-2 MEASUREMENT LIST MASSIGNED A NEW REVISION WOTE: SEE THE LINE ABOVE THE SUGSYSTEM ON THROUGH THE ALPHAGET). MOTE: SEE THE LINE ABOVE THE SUGSYSTEM OR EXPERIMENT TILLE ON EACH PAGE FOR THE REVISION DATE AND LETTER. THE DATE AND REVISION OF THE PREVIOUS P78-2 WEASUREMENT LIST BEING INCORPORATED INTO THE NEW P78-2 MEASUREMENT LIST SALSO GIVEN.

ANY CHAIGE TO A NEASUREMENT LINE, DTHER THAN THE ADDITION OR DELETION OF A BLANK SPACE, WILL CONSTITUTE A MODIFICATION.

+ A *+* IN COLUMN TWO INDICATES THE MEASUREMENT IS SUBCOMMUTATED +
NOTE: A MEASURMENT IS CONSIDERED SUBCOMMUTATED IF IT SHARES A *
VEHICLE/PAYLOAD INTERFACE WIRE WITH 1 OR WORE OTHER MEASUREMENTS*
SEE SECTION 3.3 FOR A DESCRIPTION OF THE VARIOUS SUBCOMS.
X AN "X" IN COLUMN TWO INDICATES THAT THE MEASUREMENT WAS DELETED *
AND/OR REPLACED BY ANOTHER MEASUREMENT.

EAS

(COLUMNS 3-7)

THE FIVE CHARACTER NUMBER ASSIGNED TO EACH MEASUREMENT:
THE FIRST CHARACTER--AN ALPHA--DENOTES THE PARTICULAR SUBSYSTEM
OR EXPERIMENT WHERE A MEASUREMENT ORIGINATES. ALPHA CHARACTERS
ARE DESIGNATED AS FOLLOWS:

SUBSYSTEM	N SV AC&D	Ş	R SV THERMAL (TCS)	S SV STRUCTURES	T SV TIEC & TPM	
EXPT	3 SC7	+ SCB	62S T	K SC10	L SC11	M ML12
EXPT	A SC1	<b>2</b> SC 2	c sc3	0 SC4	E SCS	F SC6

... THE MEASUREMENT LIST IS ARRANGED IN THE SAME ALPHABETIC DRDER ...

TME SECOND CHARACTER--ONE OF FOUR DIGITS--DESIGNATES THE TYPE OF MEASUREMENT SIGNAL AS FOLLOWS:

BILEVEL (DISCRETE) ANALDG

BROADBAND DIGITAL

17

SEE NOTE ON PAGE 6.1-05 CONCERNING MEASUREMENT TYPE.

THE LAST THREE CHARACTERS ARE SEQUENTIAL NUMBERS TO PROVIDE
A UNIQUE MEASUREMENT NUMBER FOR EACH MEASUREMENT FROM A GIVEN
SUBSYSTEM OR EXPERIMENT.

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(28-FEB -78 REV C)

PAGE 6.1-02

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PYS-2 MEASUREMENT LIST HEADING DEFINITIONS

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MEASUREMENT NAME/UNEMONIC

(COLUMNS 9-49)

MMEMONIC ABBREVIATION—7 CHARACTERS OR LESS--OF THE MEASUREMENT AND ABBREVIATIONS WILL NOT PURPOSELY APPEAR IN THE ACRONYMS AND ABBREVIATIONS LIST?

(COLUMNS S1-65)

THE NOTATION "CAL TABLE" BELOW THE MIN/MAX VALUES INDICATES THAT A CALIBRATION TABLE FOR THIS MEASUREMENT IS PROVIDED IN SEC 6.1.1

THE FALSE (0) AND TRUE (1) NOMINAL VOLTAGE LEVELS FOR BILEVELS-

FOR DIGITALS- THE TOTAL NUMBER OF BITS IN THE MEASUREMENT OR THE RANGE OF VALUES REPRESENTED BY THE N-BIT MEASUREMENT.

FOR ANALOGS- THE EXTENT OF THE SENSOR CALIBRATION, THE ANALOG TO DIGITAL OUTPUT, OR THE TRANSDUCER QUIPUT. ONLY ONE OF THESE RANGES IS GIVEN AND IS REFERED TO AS THE "TRANSDUCER RANGE".

***** SEE SECTION 4.7.1 FOR DISPLAY CONVERSION REQUIREMENTS *****

THE SMALLEST SUBSET OF THE TRANSDUCER RANGE THAT STILL CONTAINS ATME SUCCESSFUL OR MORMAL OPERATING LIMITS IS REFERED TO AS THE "OPER-ATING RANGE" AND IS GIVEN IN THE "NOTES" COLUMN. IN CASES WHERE THE OPERATING RANGE, ONLY THE TRANSDUCER RANGE, ONLY THE TRANSDUCER RANGE.

THE SUBSET OF THE TRANSDUCER RANGE THAT CORRESPONDS TO THE SENSOR MONITORED INSTRUMENT BEING IN AN OFF CONDITION IS REFERED TO AS THE FF RANGE", THE OFF RANGE IS ONLY LISTED IN THE "NOTES" COLUMN IF IT

"OFF RANGE", THE OFF RANGE IS ONLY LISTED IN THE "NOTES" COLUMN IF IT LIES OUTSIDE OF THE OPERATING RANGE.

THE DIFFERENCE BETWEEN THE TRANSDUCER RANGE AND THE OPERATING RANGE IS REFERED TO AS THE "FAILURE RANGE". THE FAILURE RANGE IS ONLY GIVEN THEN IT COINCIDES WITH THE OFF RANGE. (THE OFF RANGE BECOMES A FAILURE RANGE WHEN THE DEVICE IS SWITCHED FROM AN OFF CONDITION TO AN ON COMD1110M.) IN SOME CASES, THE PANGE DATA IS TBD AND THE BANGE AND UNITS ARE GIVEN AS "O TO NMAX DECT" WHERE NMAX IS THE MAXIMUM VALUE REPRESENTED BY AN N-BIT WORD; OR THE RANGE IS GIVEN AS "N TO N BITS", THESE WILL BE UPDATED AS CALIBRATION DATA BECOMES AVAILABLE FROM TEST.

(COLUMNS 67-70)
THE UNITS THE RANGE IS MEASURED IN. SEE BELOW FOR ACRONYMS AND ABBREVIATIONS USED.

(COLUMNS 72-77)

THE MEASUREMENT SAMPLE RATE GIVEN IN SAMPLES PER SECOND

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(28-FEB -78 REV C)

PAGE 6.1-03

WORD NUMBER-MAIN FRAME START NUMBER-START & END BIT NUMBER THESE NUMBERS DEFINE THE LOCATION OF THE MEASUREMENT IN THE PCW ENCODER FORMATS. SECTION 3.3 DESCRIBES THE WORD-FRAME-BIT NUMBERING SYSTEM USED FOR P78-2. THERE END MEASUREMENT LISTS GIVEN BELOW ONE FOR THE 8192 BPS TRANSFER ORBIT AND FINAL ORBIT FORMATS AND ONE FOR THE 512 BPS AUXILIARY PCM FORMAT. THESE ARE IDENTIFIED IN THE FIRST LINE OF EACH PAGE HEADING IN COLUMNS 75-82 AS 8192 BPS OR 512 BPS.

IF THE MEASUREMENT SPANS A WORD BOUNDARY (INDICATED BY A "4" IN COLUMN 89), THE LOCATION SPECIFICATION IS CONTINUED IN COLUMNS 90-100 FOR AS MANY LINES AS NECESSARY.

IF THE MEASUREMENT IS SAMPLED MORE THAN ONCE PER MAIN FRAME OR IS NOT IN THE SAME WORD IN OTHER MAIN FRAMES (+ IN 89), THE LOCATION SPECIFICATION IS GIVEN IN COLUMNS 78-88 FOR AS MANY LINES AS REQUIRED

OTHER INFORMATION ON THE MEASUREMENT LUCATION IS GIVEN IN THE NOTES COLUMN AS NECESSARY. THE MAIN FRAME NUMBERS CAN BE CALCULATED FROM THE SAMPLE BATE AND MAIN FRAME START NUMBER AS SHOWN BELOW.

512 BPS	B BITS PER WORD	64 WORDS/SEC	64 WORDS/MAIN FRAME	1 MAIN FRAME/SEC	4 MAIN FRAMES/MASTER FRAME	1 MASTER FRAME/4 SEC
			128 WORDS/MAIN FRAME			

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MAIN FRAME	NUMBERS	MF=FR1	•	MF=32-N+FR1, N=0.3		MF=16-N+FR1, N=0.7	MF=8+N+FB1, N=0,15	MF=4+N+FB1, N=0,31	•	MF=2+N+FR1. N=0.63	•	MF-N. N=0.127			
SAMPLES	MASTER FRAME	_	~	₹	•	•	5	32	48	49	08	128	256	512	768
SAMPLES	MAIN FRAME	1/128	1/64	1/32	3/64	91/1	8/1	4/4	3/8	1/2	8/8	_	~	•	9
SAMPLES	SECOND	1/16	1/8	1/4	3/8	1/2	-	~	•		w	•	<u>.</u>	32	97

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PAGE 6.1-04

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# P70-2 MEASUREMENT LIST HEADING DEFINITIONS

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STATUS OR WD2-FR2-BIT

(COLUMNS 90-100)

FOR BILEVELS ONLY - THE ON-WIRE STATUS OF A & SIGNAL AND A SIGNAL, E.G. 0-XXXX 1-YYYY.

FOR ANALOGS AND DIGITALS - THE CONTINUATION OF THE MEASUREMENT LOCATION AS DESCRIBED ABOVE.

MOTES

(COLUMNS 102-132)

THESE COLUMNS ARE FOR THE PRESENTATION OF CHARACTERISTICS NOT SMARED BY ALL MEASURMENTS AND FOR THE INCLUSION OF DATA THAT CANNOT BE LISTED IN THE APPROPRIATE COLUMN DUE TO LENGTH, SOME: TYPICAL NOTES OF IMPORTANCE ARE -

BILEVEL AZXXX - THE BILEVEL CORRESPONDING TO THE MEASUREMENT

SEE ORD TABLE N.K-M - REFERENCES LOCATION IN THE ORD OF INFORMA-TION CONCERVING THE TELEMETRY BIT PATTERNS OR ANOMALIES IN THE COMMULATION OF THE MEASUREMENT E.G., MEASUREMENTS NOT SYNCHRON-IZED WITHIN THE PCM ENCODER.

INFORMATION REGARDING SUBSETS OF RANGES

IN SCHE CASES, SERIAL DIGITAL MEASUREMENTS HAVE BEEN ASSIGNED + ANALOG OR BILEVEL MEASUREMENT NUMBERS TO ACCOMDDATE GROUND TEST-SOFTWARE LIMITATIONS. SUCH MEASUREMENTS ARE NOTED BY GIVING THE SERIAL DIGITAL CHANNEL NUMBER IN THE NOTES COLUMN (EG. SD13). • ALSO, SOWE BILEVELS HAVE BEEN COMBINED AND ASSIGNED DIGITAL • MEASUREMENT NUMBERS. THE TRUE CHANNEL TYPES ARE LISTED IN • TABLES 3.3-1. 3.3-2, AND 3.3-19.

Time

PAGE A.1-E

10

## ACRONYMS AND ABBREVIATIONS USED IN THE MEASUREMENT LIST

7"high, 1, 13" gr

	ANALOGITAL CONVERTER ANALOGITAL CONVERTER AUTILIARY BATTERY BEGINNING OF TAPE BITS PER SECOND BASEBND CALIBRATION	DISTRIBUTI ELECTRONIC MODE ENCE ENCE ENCE ATE MONITOR ATE SATE SATE GIZE	DIGITAL SUN ANGLE SENSOR DISABLE DUMNY DAELL ELECTRON (E IS JUST A LABEL IN THE SCS EXPERIMENT) ELECTRO ENABLE ENA
A/8 AC&D ACT AGC AIM AMPLTD	A-10-0 A-10-0 A-110 A-11 B-11 B-11 CAL	CAT CEA CLSO CM CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL CONTRL	DSAS DSBL DDUM DDUM EREC ENG ENG ENG ENG ENG ENG ENG ENG ENG ENG

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ACRONYMS (CONTINUED)
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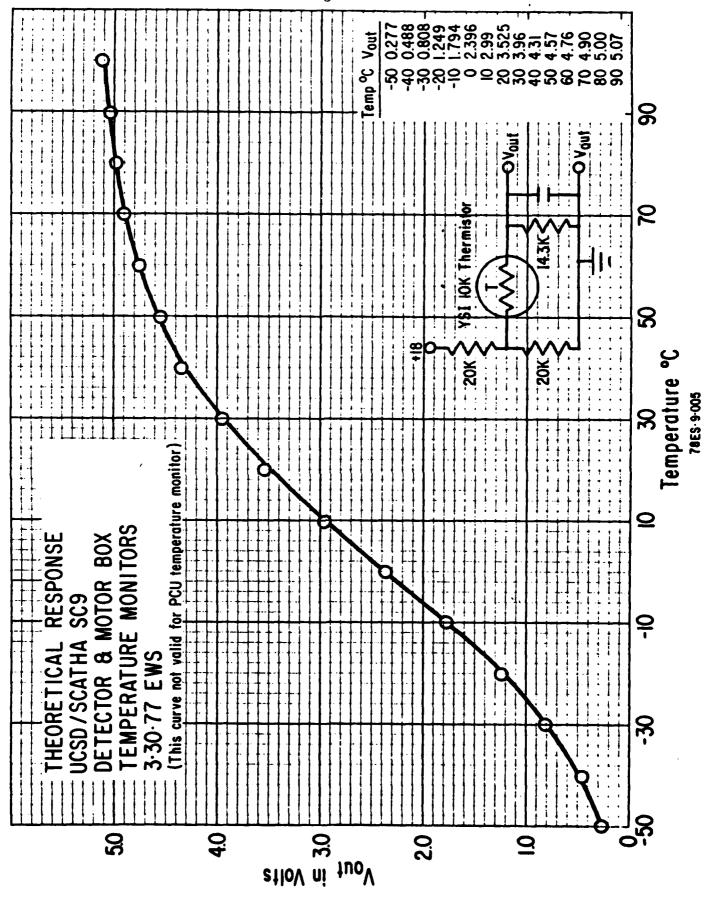
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## ACRONYMS (CONTINUED)

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SEPARATED
STEERABLE MORIZON CROSSING INDICATOR
SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                        SAITCH NUMBER /POSITION NUMBER
                                                                                                                                                                                                                                            PROCESSING
POUNDS PER SQUARE INCH ABSOLUTE
PHASE SHIFT KEY
                                                                                                 OPERATE
CABITAL REQUIREMENTS DOCUMENT
PADTON
MORTH/SOUTH (AN SCS DETECTOR)
                                                                                                                                                                                                                                                                                                                                                                RETARDING POTENTIAL ANALYZER
REVOLUTIONS PER MINUTE
REPRODUCING
                                                                     WOMINAL OPERATING LIMITS
                                                                                                                                                                                                                        JOWER PROCESSOR ASSEMBLY
                                                                                                                               PASALLEL
PULSE CODE MODULATION
POSES CONTROL UNIT
PRIMARY DE-ENERGIZE
PRIMARY ENERGIZE
PERPENDICULAR
PULSE-HEIGHT-ANALYZER
                                                                                                                                                                                                                                                                                                                                                                                                                            SECCNDARY
SECONDARY DE-ENERGIZE
SECOND(S)
SELECTED
                                                                                                                                                                                                                                                                                                                REFERENCE
ROCKET ENGINE MODULE
RADIO FREQUENCY
                                       DETAL
DREMANCE FIRING UNIT
                               NOT FULLY RETRACTED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SELECT
SECONDARY ENERGIZE
                                                                               OPERATE/OFF
OPERATIONAL ORBIT
                      SYNCHRONIZED
            SELECTED
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Recording
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OPRT
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SEP.
SHCI
SIG
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PENG
POS
POSI.
PPRIM
PRIM
PRIM
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RSET
S-#/8
SC#
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RLSD
RPA
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### ACRONYMS (CONTINUED)

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STEELITE POSITIVE ION BEAM SYSTEM
SYSTEM STANDBY/REJECT
SSS SOLID STATE DETECTOR
SSS SOLID STATE DETECTOR
SSS SOLID STATE SPECTROMETER
SSS SOLID STATE SPECTROMETER
SSS SOLID STATE SPECTROMETER
SSS SOLID STATE SPECTROMETER
SY STANDBY/EXCUTE
SWCH SALICH
STALDBY/EXCUTE
SWCH STALDBY/EXCUTE
SWCH STALDBY/EXCUTE
TOO THEPMAL CONTROL SYSTEM
TOO TIME CONTROL SYSTEM
THE EMETRY LOCKED
TOR THANSFEN ORBIT
TOR TELEMETRY LOCKED
TOR THANSFEN ORBIT
TOR TELEMETRY LOCKED
TOR THANSFEN ORBIT
TOR TELEMETRY TRACKING AND COMMAND
VOLTS ALTERNATING CURRENT
VOLT VOLTS ALTERNATING CURRENT
VOLT VOLTGE POTENTIAL
VOLT VOLTGE POTENTIAL
VOLT VOLTGE POTENTIAL
VOLT VOLTGE FOTENTIAL
VOLTGE FOTENT
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<b>3</b>	P78-2 MEAS S NO	SC9 EXPERIMENT MEASUREMENT NAME/NAVEMONIC	(20-FEB -78 REV C) Supersedes (20-Jan -78 Rev B)	RANGE MIN MAX	TINO	8192 RATE SPS	BPS LOCATION WD1-FR1-BIT	STATUS OR WD2-FR2-BIT	SC9 EXPERIMENT PAGE NOTES	 w
, '	100	(+) DEFLECTION VOLTAGE NORTH/SOUTH	NORTH/SOUTH	0 TO 5. j	VDC	•	102-107-1/8		0=0FF/FAIL; 1/5.1=0PRT	
• '	74002	(-) DEFLECTION VOLTAGE NORTH/SOUTH	NORTH/SOUTH	0 10 5.1	XOC	1/016	1/016 102-108-1/8		0-0FF/FAIL; 1/5.1-0PRT	
. '	J4003	(+) DEFLECTION VOLTAGE EAST/WEST +DVEW	EAST/WEST	0 10 5.1	VDC VDC	1/016	1/016 102-109-1/8		0=0FF/FAIL; 1/5.1=0PRT	
'	4004	(-) DEFLECTION VOLTAGE EAST/WEST -DVEW	EAST/WEST	0 10 5.1	VDC VDC	1/016	1/016 102-110-1/8		0-0FF/FAIL; 1/5.1-0PRT	
•	24005	(+) DEFLECTION VOLTAGE FIXED +DVFD	FIXED	0 TO 5.1	ADC VDC	1/016	1/016 102-111-1/8		0-0FF/FAIL; 1/5.1-0PRT	
•	24006	J4006 (-) DEFLECTION VOLTAGE FIXED -DVFD	FIXED	0 10 5.1	200	1/016	1/016 102-112-1/8		0-0FF/FAIL; 1/5.1-0PRT	
'	14007	SPIRALTROM VOLTAGE NORTH/SOUTH	гн/ѕолтн	0 10 5.1	VDC	1/016	1/016 102-113-1/8		0-0FF/FAIL; 1/2-0PRT	
A-	4008	SPIRALTRON VOLTAGE EAST/WEST	r/west	0 TO 5.1	ADC V	1/016	1/016 102-114-1/8		O-OFF/FAIL; 1/2-OPRT	
30	J4009	SPIRALTRON VOLTAGE FIXED SYFD	ED	0 10 5.1	ADC V	1/016	1/016 102-115-1/8		0-OFF/FAIL; 1/2-OPRT	
•	J4010	NORTH/SOUTH TEMPERATURE TNS	u	-50 TO 80 CAL TABLE	DEGC	1/016	102-116-1/8		-40/+50=0PRT; TEST RANGE  -40/+70	15
•	14011	EAST/WEST TEMPERATURE TEW		-50 TO 80 CAL TABLE	DEGC	1/016	102-117-1/6		-40/+50=OPRT; TEST RANGE  -40/+70	18
•	J4012	MOTOR BOX TEMPERATURE TMB	-	-50 TO 80 CAL TABLE	DEGC	1/016	102-118-1/8		-40/+50=OPRT; TEST RANGE  -40/+70	15
• '	J4013	PCU TEMPERATURE TPCU		-40 TO 60 CAL TABLE	DEGC	1/016	102-119-1/8		-40/+50=0PRT	
<b>'                                    </b>	J4014	NS POSITION MONITOR (WORD 102 NSPOSS	_	0 TO 5.1	VDC	1/016	102-120-1/8			
<b>"</b>	J4015	EW POSITION MONITOR (WORD	JRD 102)	0 TO 5.1	VDC	1/016	1/016 102-121-1/8			
•	J4016	PCU MONITOR PCUMON		0 TO 5.1	VDC	1/016	102-122-1/8		0=0FF/FAIL; 1.0+-0.1=0PRT	=
•	24017	NS POSITION MONITOR (WORD 110)	JRD 110)	0 TO 5.1	VDC	1/00/1	1/001 110-004-1/8			
	PL5863011	1011		(28-Feb-78 Rev	-78 Rev	(C)			Page 6.1	6.1-050

P78-2		(28-FEB -78 REV C)			8192			SCO EXPERIMENT	PAGE 2
MEAS MS NO	MEASUREMENT MAME/KMEMONIC	SUPERSEDES (20-JAN -78 REV B)	RANGE MIN MAX	UNIT	RATE	MD1-FR1-BIT WD2-FI	STATUS OR WD2-FR2-BIT	NOTES	1
4 04018	EN POSITION MONITOR (WORD 110)	IORD 110)	0 10 5.1	<b>V V V V V V V V V V</b>	1/00/1	110-005-1/8			
+04501	ACCUMULATOR 1 (NS PROTONS)	(ONS)	0 TO 65535	DECI	4/001	104-001-1/84105-001-1/8	01-1/8	IMF=2*N+1,N=0,63	\$015
+44502	ACUMMULATOR 3 (EW PROTONS) PEW	(ONS)	0 10 65535	DECI	4/001	049-001-1/84050-001-1/8	01-1/8	MF=2+N+1,N=0,63	<b>8</b> 08
+44503	ACCUMULATOR 5 (FD PROTONS) PFIXO	(ONS)	0 TO 65535	DECI	4/001	051-001-1/64052-001-1/8	01-1/8	MF=2+N+1,N=0,63	\$010
+7520+	SCAN		0 DR 10	ABC	4/001	106-000-2	1-SCA	0-DWLL 1-SCAN MF-2-N, N-0,63	\$010
4+48505	4+J8505 DEFLECTION CONTROL COUNTER DCC		0 10 63	DECT	4/001	106-000-3/8		MF-2-N, N=0.63	LC124-018
4+18506	4+J8506 NORTH/SOUTH POSITION COUNTER	COUNTER	0 10 2047	DEC1	1/00/1	106-001-1/84106-005-6/8	9/9-50	MF=8-N+1.N=0.15	LC124-018
4+08507	EAST/WEST POSITION COUNTER	INTER	0 10 2047	DECI	1/00/-	106-003-1/64:06-005-2/4	05-2/4	MF-8-N+3,N=0,15	LC124-018
31	COUNTER-CLOCKWISE CCNEW	EAST/WEST	0 DR 10	<b>V V D C</b>	1/00/1	106-005-1 0-180	0 <b>9</b> 1-1		SD16
+72509	COUNTER-CLOCKWISE NORTH/SOUTH	ги/south	0 OR 10	ABC	1/00/1	106-005-5 0=TBD	- 180		\$01 <b>0</b>
4+78510	NORTH/SOUTH LOWER LIMIT MSLL		0 10 255	DECI	1/016	106-007-1/8			LC124-018
4+08511	NORTH/SOUTH UPPER LIMIT	L1	0 10 255	DECI	1/016	106-015-1/8			LC124-018
4+78512	EAST/WEST LOWER LIMIT		0 10 255	DECI	1/016	106-023-1/8			LC124-018
4+78513	EAST/WEST UPPER LIMIT EWUL		0 10 255	DECI	1/016	106-031-1/8			LC124-018
4+78532	DWELL TIME DT		0 10 255	DECI	1/016	106-055-1/8			LC124-018
4+78533	DWELLS/CYCLE DM		0 10 255	DECI	1/016	106-063-1/8			LC124-010
4+0834	4+J8534 INITIAL DWELL STEP IDI		0 70 255	DECI	1/016	1/016 106-071-1/8			LC124-018
PL5863011	11		(28-Feb-78 Rev	78 Rev	ပ်			Page 6.	6.1-051

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	P78-2 MEAS MS NO	2 SC9 EXPERIMENT MEASUREMENT NAME/ANEMONIC	(28-FEB -78 REV C) Supersedes (20-Jan -78 REV B)	RANGE MIN N	E	L IN	B192 RATE SPS	BPS LOCATION WD1-FR1-BIT	STATUS OR WD2-FR2-BIT	SC9 EXPERIMENT NOTES	PAGE 3
	18	DWELL STEP SIZE DS	1	0 10	255	DECI	1/016	106-079-1/8			LC124-018
	4+08238	4+J8538 ACCUMULATOR GATING	T & S & B & B & B & B & B & B & B & B & B	0 10	255	DECI	1/016	1/016 106-087-1/8			LC124-018
	4+78539	4+J8539 #010# POWER		0 10	255	DECI	1/016	1/016 106-095-1/8			LC124-018
	4+08545	LC:1-7	THRU 7 STATUS	0 10	10 255	DECI	1/016	1/016 106-103-1/8	4 4 4 5 5 6 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		LC124-018
	4+18552	4+J0552 LATCHING COMMANDS & THRU 14 STATUS LC:8-14	THRU 14 STATUS	0 10	255	DECI	1/016	1/016 106-111-1/8			LC124-018
	4+78559	4+J8559 COMMAND BUS CBUS		0 TO	255	DECI	1/016	1/016 106-119-1/8			LC124-018
	4+18560	MAGNITUDE COMMAND H	† 	0 10	255	DECI	1/016	106-127-1/8			LC124-01
A	• •	ACCUMULATOR 2 (NS E	LECTRONS)	0 10	0 10 65535	DEC1	4/001	104-000-1/84	105-000-1/8	4/001 104-000-1/8105-000-1/8  MF-2+N,N=0.63	5015
-32		+J4567 ACCUMULATOR 4 (EW ELECTRONS)	LECTRONS)	0 10	65535	DECI	4/001	049-000-1/84050-000-1/8	050-000-1/8	MF-2*N,N=0,63	80S
	+74568	ACCUMUL PF1XE	ROTONS)	0 10	65535	DECI	4/001	051-000-1/84052-000-1/8	052-000-1/8	#F-2-K, X-0,63	\$010
	4+08569	NORTH/SOUTH WAG, SWEEP AND PARK CNTRL NSPS	EP AND PARK CNTRL	0 10	255	DECI	1/016	106-039-1/8			LC124-018
	4+78570	EAST/WEST WAG, SWEEP AND PARK CNTRL	AND PARK CNTRL	0 10 255	255	DECI	1/016	1/016 106-047-1/8			LC124-018
	00100	JOIOO SCO MICROPROCESSOR STATUS	STATUS	<b>6</b> TO	<b>6</b>	B11S	8/001	8/001 100-000-1/8		VC0 545	
	4 76001	SC9 BROADBAND DATA SOURCES		0 10	<b>.</b>	VOLT				3000 HZ SEE TABLE	E 3.3-24
	PL5863011	111		(28	(28-Feb-78	Rev	<u>ට</u>			Page 6.1-051	

APPENDIX 6

DATA TAPE FORMAT

APPENDIX 6

THE SC-9 DATA TAPE IS 9 TRACK, 1600 BPI, ODD PARITY

THE RECORD SIZE IS 1024 16 BIT WORDS OR 2048 BYTES

THE BYTES ARE NUMBERED FROM 0 TO 2047

BYTE 0 IS PHYSICALLY THE FIRST BYTE ENCOUNTERED BY THE READ HEAD.

THE 2048 BYTE RECORD CONTAINS ALL DATA FOR 1 MASTER FRAME (16 SECONDS).

THE TAPE FORMAT SUMMARY IMMEDIATELY PRECLUDES THIS SECTION.

#### TERMINOLOGY:

BYTE: THE "BYTES" CORRESPOND TO EACH BYTE ON 9 TRACK TAPE.

THEY ARE LISTED IN NUMERICAL ORDER.

MFR: MAINFRAME NUMBER OF THE ASSOCIATED MASTER FRAME OF DATA.
MFR ALONG WITH "WORD" DEFINES THE DATA TO BE PLACED IN

THE CORRESPONDING "BYTE" LOCATION ON TAPE.

WORD: TELEMETRY WORD FOR A GIVEN MFR.

TBD: TO BE DETERMINED.

*: NOT ASSOCIATED WITH SPACECRAFT TELEMETRY DATA

## NOTE:

"STATUS NSWEP" DATA IS PLACED INTO TWO SEPARATE BYTES ON TAPE (FOR A GIVEN MFR, AND WORD). THIS IS BECAUSE THIS BYTE CONTAINS DATA BITS FOR BOTH "STATUS NSP" AND "STATUS EWP" DATA.

ALSO NOTE THAT UCSD GSE TAPES WILL DIFFER IN SOME AREAS WEHRE DATA FROM OTHER PAYLOADS IS TO BE PLACED.

#### TAPE FORMAT

### File Description -

Each tape will consist of six files seperated by hardware tape marks (EOF) and terminated by a double hardware tape mark to to signify END OF INFORMATION. File and record descriptions are presented below:

## File 1 - Header File

This file consists of a single record. It identifies the contents of the tape. Except for the first two bytes, the entire record is alphanumeric, recorded using the ASCII character set convention.

BYTE	TYPE	CONTENTS			
1	Integer	130 (no. of Hollerith bytes in record)			
2	Integer	<pre>1 (identifies record as an     ID record)</pre>			
3-12	Alpha	Vehicle ID (6HSCATHA)			
13-22	Alpha	User ID (4HSCATHA)			
23~32	Alpha	Data Format			
33-42	Alpha	100% Digital Tape Number			
43-52	Alpha	Acquisition Revolution Number			
53~52	Alpha	Acquisition Year			
63-72	Alpha	Acquisition Julian Date			
73~82	Alpha	Start of Data, UT seconds			
83-92	Alpha	End of Data, UT seconds			
93-102	Alpha	Data Rate, bits per second			
103-132	Alpha	Additional comments/blank fill			

#### File 2 - Scan File

This file contains n 2049 byte records, where each pair of bytes is inverted according to the PDP convention. The data contained in this file are the UT time of the last good master frame before the master frame containing the out-of-sync main frame, the UT time of the master frame containing the out-of-sync main frame, the UT time of the bad main frame, the number of good

bytes in the out-of-sync main frame, and the UT time of the first good master frame after the out-of-sync main frame. The 'number of bytes' is expressed in two 8-bit bytes, and all times are contained in four 8-bit bytes, ordered 1-0-3-2.

#### File 3 - Event File

This file consists of all the commands sent to the spacecraft, in the form of: UT time, VTCW, and Command. Each record contains 2049 8-bit bytes. Pairs of bytes are inverted. UT time is as described in files 1. and 2. The VTCW is contained in four bytes and the commands (the commands consist of 32 bits. There are actually 33 bits, but they leave off the highest order bit) are contained in six bytes, all pairs of bytes are inverted.

## File 4 - Ephemeris File

This file contains 69 parameters in 1200 8-bit bytes, encoded with ASCII characters. Each parameter has the format F15.3. The first parameter is contained in bytes 1-15, the second parameter is contained in bytes 16-30, ... and parameter 69 is contained in bytes 1001-1035. The parameters are defined in the enclosure. Each pair of 8-bit bytes have been inverted to comply with the PDP reading convention.

#### File 5 - Attitude File

NOTE: Not all tapes have an Attitude File, and some have the old format and others have a new version.

	The	old file Parm. 1	parameters were: Parm. 2	Parm. 3	Parm. 4
Card	1	Year	Day	BEGSEC	endsec
Card	2	a	b	c	đ
Card	3	RA	DEC	A	В
Card	4	Jx	Jу	Jz	W

The defifnitions for the parameters are:

Year = Year of data Day = Day of data

BEGSEC = Start time of span (Zulu seconds)

ENDSEC = End time of span (Zulu seconds)

a,b,d,c = Coefficients of a third degree polynomial espression for Theta in radians

Theta = The angle between the spacecraft Y* axis and the angular momentum X,Z plane,
Theta = a + bT + c(T*T) + d(T*T*T)

Ti = time of interest (seconds)

T = Ti - BEGSEC (seconds)

RA, DEC = Right ascension and declination of the angular momentum X(subA) or principal axis (radians)

A = The angle between the spacecraft Zs* axis and the principal axis.

B = The angle between the spacecraft Yx* axis and the principal axis.

in ECI coordinates.

W = Average spin rate (radians per second)

NOTE: The asterisk flags a change in definition from previous definition.

The new attitude file format is the same as the old format except for:

RA = AH

DEC = CH

A = AS

B = CS

## Where:

AH = Right ascension of the principal axis on ECI. CH = Declination of the principal axis on ECI.

AS,CS = Euler angles for principal axis misalignment.
AS is equivalent to ETA3 and CS is
equivalent to ETA2 as found in the
Output Module, and Estimation Module.

File 6 - Telemetry File

The format of the Telemetry File follows.

# SCATHA TAPE FORMAT

## SUMMARY

BYTES	DESCRIPTION	MNEMONIC	TYPE
1-128	Subcom ID	ISUBCM(128)	Byte
129-192	Vehicle Time Code Wd	IVTCW(16)	Integer *4
193-256	Ground Time	IGT(16)	Integer *4
257-384	N/S Elec's	IACC2(64)	Integer
385-512	N/S Ions	IACC1 (64)	Integer
513-640	E/W Elec's	IACC4 (64)	Integer
641-768	E/W Ions	IACC3 (64)	Integer
769-1024	Fixed Ions	IACC5(128)	Integer
1025-1152	Magx	MX (64)	Integer
1153-1280	Magy	MY (64)	Integer
1281-1408	Mag 2	MZ (64)	Integer
1409-1424	Magx direction	MXD(16)	Byte - integer*
1425-1440	Magy direction	MYD(16)	Byte - integer*
1441-1456	Magz direction	MZD(16)	Byte - integer*
1457	+DVNS		
1458	-DVNS		
1459	+DVEW	IDV(6)	Byte - integer
1460	-DVEW		
1461	+DVFD		
1462	-DVFD		
1463	SVNS		
1464	SVEW	ISV(3)	Byte - integer
1465	SVFD		

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				MEAS. N	^
BYTES	DESPCRIPTION	MNEMONIC	TYPE	J4010	50
1466	Temp. N/S head	ITNS	Byte	J4011	50
1467	Temp. E/W head	ITEW	Byte	J4012	50
1468	Temp. motor box	ITMB	Byte	J4012	50
1469	Temp. power cond.	ITPCU	Byte	34013	<b>J</b> 0
1.470	unit N/S Pos. Monitor	NSPOS	Byte	J4014	50
1470	E/W Pos. Monitor	IEWPOS	Byte	J4015	50
1471	PCU Monitor	IPCUM	Byte	J4016	50
1472 1473-1488	N/S Analog Position	NSP(16)	Byte	J4017	50
14/3-1400	E/W Analog Position	IEWP (16)	Byte	J4018	51
	Probe Voltage 1	IPV1(16)	Integer	B8008	17
1505-1536	Probe Voltage 2	IPV2(16)	Integer	B8028	18
1537-1568	Beam Curr. Flag 1-5	IBCF(5,8)	Byte	D2001-5	38
1569-1576	Beam On/Off	IBON (8)	Byte	D2006	38
	Beam Duty Cyc. Flag	IBDCF(8)	Byte	D2007	38
	Beam Focus Flag 1	IBFF1(8)	Byte	D2008	38
1577 1504	Beam Focus Flag 2	IBFF2(8)	Byte	D2009	38
1577-1584	Beam Energy Flag	IBEF (4,8)	Byte	D2010-13	38
	1-4 Gun Cap Deployment	IGCDF(8)	Byte	D2014	38
	Flag			20015	20
	Blowoff Cover	IBCSF(8)	Byte	D2015	39
	Status Flag	NBPF(8)	Byte	D2016	39
	Neut. Bias Polarity Flag	NBPF (0)	Dyce		
1585-1600	Beam Current High	IBCH(16)	Byte	D4001	38
1601-1616	Beam Current Montr.	IBCM(16)	Byte	D4008	39
1617-1632	Neutralizer	NE (16)	Byte	D4009	39
101/1032	Emission	, ,			
1633-1648	Spibs Net	ISNCM(16)	Byte	D4010	39
1033~1040	Current Monitor	-			
1649~1656	Discharge Current	IDCUR(8)	Byte	D4012	39
1657	High Volt. Monitor	IHVM	Byte	D4003	39
1658	Voltage Monitor 1	IVM1	Byte	D4004	39
1659	Voltage Monitor 2	IVM2	Byte	D4005	39
1660	Beam Volt. Monitor	IBVM	Byte	D4011	39
1661	Keeper Curr. Mon.	KCM	Byte	D4014	39
1662	Reeper High Volt.	KHVM	Byte	D4015	39
1002	Monitor		_		
1663	Accelerator Current	IACM	Byte	D4018	39
	Monitor	IDCM	Byte	D4019	40
1664	Decelerator Current Monitor	1DOP	_		
1665	Neutralizer Htr	NHCM	Byte	D4020	40
	Current Monitor	NBVM	Byte	D4021	40
1666	Neutralizer Bias Voltage Monitor		<i>D</i> , 40		
1667-1674	Non-Critical Bus	NCBV(8)	Byte	<b>V</b> 2007	80
	Voltage Monitor		_		
1675-1682	Non-Critical Bus	NCBC1 (8)	Byte	V4007	78
	Current 1	NCBC2(8)	Byte	V4008	78
1683-1690	Non-Critical Bus	NCBC2(0)	~ 1 C =		

	Current 2				
1691-1694	Solar Array Temp	ISAT(4)	Byte V	4015~18 78	-79
	1-4				
1695-1710	Solar Array Curr. 1	ISAC1(16)	Byte	V4019	79
1711-1726	Solar Array Curr. 2	ISAC2(16)	Byte	V4020	79
1727	Shunt Reg. Temp.	ISRT	Byte	V4021	79
1728	PCU Temp. 1	IPCUT	Byte	V4026	79
1729-1792	Deflection Control	IDC (64)	Byte	J8505	51
	Counter Step No.	. = ( , , , ,			
	Scan/Dwell	ISD(64)	Byte	J2504	51
1793-1825		NOTE at end			-
1826~1856	Position See	NOTE at end	of list		
1857	NS Lower Limit	NSLL	Byte	J8510	51
1858	NS Upper Limit	NSUL	Byte	J8511	51
1859	EW Lower Limit	IEWLL	Byte	J8512	51
1860	EW Upper Limit	IEWUL	Byte	J8513	51
1861	NS Wag, Sweep,	NSPS	Byte	J8569	52
	and Park Control		2,00	00303	<b>J</b> -
1862	EW Wag, Sweep,	IEWPS	Byte	J8570	52
	and Park Control		- 4	- 40.0	
1863	Dwell Time	IDT	Byte	J8532	51
1864	No. of Dwell/Cycle	IDN	Byte	J8533	51
1865	Initial Dwell Step	ID1	Byte	J8534	51
1866	Dwell Step Size	IDS	Byte	J8535	52
1867	Accumulator Gating	IAG	Byte	J8538	52
1868	Motor Power	IMP	Byte	J8539	52
1869	Status Latching	LCl	Byte	J8545	52
2007	Command 1-7	202	5766	00343	<i></i>
1870	Status Latching	LC2	Byte	J8552	52
	Command 8-14		-,00	5,000	-
1871	Status Magnitude	MC1	Byte	J8559	52
	Commands (Bus) 1-8		- 2		
1872	Status Magnitude	MC2	Byte	J8560	52
	Commands (High) 9-16		-,	0000	-
1873-1888	Elect. Channel 1	IEC1(16)	Byte	K4008	53
1889-1904	Elect. Channel 2	IEC2(16)	Byte	K4009	53
1905-1920	Elect. Channel 3	IEC3(16)	Byte	K4010	53
1921-1936	Elect. Channel 4	IEC4(16)	Byte	K4011	53
1937-1952	Magnetic Channel 1	IMC1(16)	Byte	K4012	53
1953-1968					53
1969-1984	Magnetic Channel 2 Magnetic Channel 3	IMC2(16) IMC3(16)	Byte	K4013 K4014	54
1985-2000	Magnetic Channel 4	IMC4(16)	Byte		
2001	Plus Calibration		Byte	K4015	
2001	Verification	IPCV	Byte	K2001	53
	Minus Calibration	INCV	Byte	K2002	53
	Mag/Common Mode	MCMV	Byte	K2002	
	Mode	MODE	Byte	K2004	
2002-2013	DSAS Time Tag and	IDTA(4)	Integer		62
-vv=-5444	Angle	/4/	rucedet.	T MOUUD	UZ
2014-2048	Fi11 0				
	ICSNS, IEWPC, and ICWE	W in bytes	1793-185	6 have !	een
	ambled on our tape. Th				
lows:			GWD740	. Agraton ;	. • • • • • • • • • • • • • • • • • • •
-444					

NOTE: NSPC, ICSNS, IEWPC, and ICWEW in bytes 1793-1856 have been slightly scrambled on our tape. The correct, unscrambled version follows:

1793 = lowest 8 bits of NSPC 1794 is: MSB = ICWEW (1 bit) - EWPC bit 11 - EWPC bit 10 -EWPC bit 9 - ICWNS (1 bit) - NSPC bit 11 -NSPC bit 10 - NSPC bit 9 = LSB

Where:

MSB = Most Signifigant Bit LSB = Least Signifigant Bit

This pattern repeats until 1825

1825 is: MSB = ICWEW (1 bit) - EWPC bit 11 - EWPC bit 10 
EWPC bit 9 - ICWNS (1 bit) - NSPC bit 11 
NSPC bit 10 - NSPC bit 9 = LSB

(same form as 1794)

1826 = lowest 8 bits of EWPC 1827 is the scame as 1794

And so forth thru 1856, where:

NSPC(16) = NS Pos. Counter; Integer; J8506; 51 ICWNS(16) = Counter-Clockwise NS; Byte; J2509; 51

IEWPC(16) = EW Pos. Counter; Intger; J8507; 51

ICWEW(16) = Counter-Clockwise Ew; Byte; J2508; 51

TO THE REPORT OF THE PARTY OF T

21. 2 4 27 27	45.41					
BYTE	riF ik	WORD		(1771 <b>0</b> )	4	
0	0	124	MAIN	FRAME	ID =	0
1	1	124	MAIN	FRAME	ID =	1
2	2	124	MAIN	FRAME	ID =	2
3	3	124	MAIN	FRAME	ID =	3
4	4	124	MAIN	FRAME	ID =	4
5	5	124	MAIN	FRAME	ID =	5
6	6	124	MAIN	FRAME	ID =	6
7	7	124	MAIN	FRAME	ID =	7
8	8	124	MAIN	FRAME	ID =	8
9	9	124	MAIN	FRAME	ID =	9
10	10	124	MAIN	FRAME	ID =	10
11	ii	124	MAIN	FRAME	ID =	11
12	12	124	MAIN	FRAME		12
13	13					
		124 124	MAIN	FRAME	ID =	13
14	14		MAIN	FRAME	ID =	14
15	15	124	MAIN	FRAME	ID =	15
16	16	124	MAIN	FRAME	ID =	16
17	17	124	MAIN	FRAME	ID =	17
18	18	124	MAIN	FRAME	ID =	18
19	19	124	MAIN	FRAME	ID =	19
20	20	124	MAIN	FRAME	ID =	20
21	21	124	MAIN	FRAME	ID =	21
22	22	124	MAIN	FRAME	ID =	22
23	23	124	MAIN	FRAME	ID =	23
24	24	124	MAIN	FRAME	ID =	24
25	25	124	MAIN	FRAME	ID =	25
26	26	124	MAIN	FRAME	ID =	26
.27	27	124	MAIN	FRAME	ID =	27
28	28	124	MAIN	FRAME	ID =	28
29	29	124	MAIN	FRAME	ID =	29
30	30	124	MAIN	FRAME		30
31	31	124	MAIN	FRAME	ID =	31
32	32	124	MAIN	FRAME	ID =	32
33	33	124	MAIN	FRAME	ID =	33
34	34	124	MAIN	FRAME	ID =	34
35	35	124	MAIN	FRAME	ID =	35
36	36	124	MAIN	FRAME	ID =	36
37	37	124	MAIN	FRAME	ID =	37
38	38	124	MAIN	FRAME	ID =	38
39	39	124	MAIN	FRAME	·ID =	39
40	40	124	MAIN	FRAME	ID =	40
41	41	124	MAIN	FRAME	ID =	41
42	42	124	MAIN	FRAME	ID =	42
43	43	124	MAIN	FRAME	ID =	43
44	44					
		124	MAIN	FRAME	ID =	44
45	45	124	MAIN	FRAME	ID =	45
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           104 NE LUNS HIGH BYTE
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           105 NB IUNS LOW-BYTE
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           105 NS IUNS LOW BYTE
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          104 NS IUNS HIGH BYTE
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           105 NS JUNS LUN BITE
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           104 NS
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474
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           105 NS
                  IONS LOW BYTE
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           104 NS
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           105 NS
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           104 NS
                  IONS HIGH BYTE
           105 NB
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                  IONS LOW BYTE
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           104 NS
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           105 NS
                  TONG LOW BYTE
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           104 NS
                  JONS HIGH BYTE
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           105 NS
                  IONS LOW BYTE
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           104 NE
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                  IONS HIGH BYTE
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           105 NE
                  IONS LOW BYTE
445
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           104 NS
                  IONS HIGH BYTE
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                  IONS LOW BYTE
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           104 NS
                  IUNS HIGH EYTC
498
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           105 NS IONS LOW BYTE
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      119
           104 NE IONS HIGH BYTE
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                   LONS LOW BYTE
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            104 NS IONS HIGH BYTE
502
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            LOS NS LONS LOW BYTE
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            104 AS TONS HIGH BYTE
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      121
           105 NS JONS LOW BYTE
5:15
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           104 NS TUNS HIGH BYTE
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           105 NS IONS LOW BYTE
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      123
           104 NS IGHS HIGH BYTE
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           105 NS ICHE LOW BYTE
      1.5
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      125
           104 NS
                  IUNS HIGH BYTE
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           105 NS
                   IUNS LOW BYTE
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            SO EW ELEC LOW BYTE
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            49 EW ELEC HIGH BYTE
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            SO EW ELEC LOW BYTE
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            49 EW ELEC HIGH BYTE
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            SO EN ELEC LON-BYTE
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            49 EW ELEC HIGH BYTE
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            50 EW ELEC LOW BYTE
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               EW ELEC LOW BYTE
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            49 EW CLEC HIGH BYTE
       16
            SO EW ELEC LOW BYTE
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               EW ELEC HIGH BYTE
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            SO EW ELEC LOW BYTE
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            50 EW ELEC LOW BYTE
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               EW ELEC HIGH BYTE
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            SO EN ELEC LOW BYTE
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            49 EW ELEC HIGH BYTE
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            SO EN ELEC LON BYTE
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239
            49 EW ELEC HIGH BYTE
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            50 EW ELEC LOW BYTE
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            50 EW ELEC LOW BYTE
543
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             49 EW ELEC HIGH BYTE
544
       32
            SO EW ELEC LOW BYTE
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545
            49 EU ELEC HIGH BYTE
            SO EW ELEC LOW BYTE
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               EW ELEC HIGH BYTE
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            49
            SO EW ELEC LOW BYTE
546
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            49 EU ELEC HIGH BYTE
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       38
               EW ELEC LOW BYTE
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351
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            49 EW ELEC HIGH BYTE
552
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            SO EW ELEC LOW BYTE
223
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            49 EN SLEC HIGH BYTE
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            40 EN ELEC LOW BYTE.
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            49 EW CLEC MIGH BYTE
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            50 EW ELEC LOW BYTE
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            49 EW ELEC HIGH BYTE
            SO EN ELEC LON BYTE
558
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            49 EW ELEC HIGH BYTE
540
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            50 EN ELEC LON BYTE
561
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            49 EW ELEC HIGH BYTE
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            50 EW ELEC LOW BYTE
563
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              EW ELEC HIGH BYTE
            49
564
      52
            SO EW ELEC LOW BYTE
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               EW ELEC HIGH BYTE
566
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               EW ELEC LOW BYTE
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               EW ELEC HIGH BYTE
568
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               EW ELEC LOW BYTE
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               EW ELEC LOW BYTE
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               EW ELEC HIGH BYTE
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572
               EN ELEC LUM BYTE
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               EW ELEC HIGH BYTE
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574
               EN ELEC LON BYTE
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            49
               EW ELEC HIGH BYTE
               EN ELEC LOW BYTE
376
            50
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               EW ELEC HIGH BYTE
577
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               EW
                  ELEC LOW BYTE
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               EN ELEC HIGH BYTE
379
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               EM EFEC FOM BALLE
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      48
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               EN ELEC HIGH BYTE
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              EW ELEC LOW BYTE
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583
            49
              EN ELEC HIGH BYTE
584
      72
            SO EW ELEC LOW BYTE
      72
585
            49
              EW CLEC HIGH BYTE
584
      74
            SO EW ELEC LOW-BYTE
587
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            49
              EN ELEC HIGH BYTE
            50 EN ELEC LON BYTE
588
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            49
              EN ELEC HIGH BYTE
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            SO EW ELEC LOW BYTE
591
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            49 EW ELEC HIGH BYTE
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            50 EW ELEC LOU BYTE
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              EW ELEC HIGH BYTE
594
      82
            50 EW ELEC LOW BYTE
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              EM CLEC HIGH BYTE
596
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            50 EW ELEC LOW BYTE
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              EW ELEC HIGH BYTE
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            50-EW ELEC LOW BYTE
399
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               EW ELEC HIGH BYTE
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               EW ELEC LOW BYTE
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               EN ELEC LON BYTE
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              EW ELEC HIGH BYTE
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      92
               EN ELEC HIGH BYTE
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               EN ELEC HIGH BYTE
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608
            SO EN ELEC LON BYTE
504
      94
            49 EW ELEC HIGH BYTE
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SO EW ELEC LOW BYTE
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      78
            49 EU ILLEC HIGH BYTE
6.1
            SO EN ELEC LOW BYTE
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              EW ELEC HIGH BYTE
            50 EW ELEC LOW BYTE
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            49 EW ELEC HIGH BYTE
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            50 EN ELEC LOW BYTE
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            50 EW ELEC LOW BYTE
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021
            49 EU ELEC HIGH BYTE
     108
            SO EN ELEC LOU-BYTE
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     110
            49 EW ELEC HIGH BYTE
523
     110
           50 LW ELEC LOW BYTE
624
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            49 EW ELEC HIGH BYTE
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            50 EW ELEC LOW BYTE
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            49 EW LLEC HIGH BYTE
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            50 EW LLEC LOW BYTE
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            49 EW ELEC HIGH BYTE
632
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633
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634
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            SO LW ELEC LOW BYTE
535
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     124
            SO EW ELEC LOW BYTE
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            49 EW ELEC HIGH BYTE
637
     124
     126
            SO EW ELEC LOW BYTE
638
480
     126
            44 EU ELEC HIGH BYTE
640
            50 EW IONS LOW BYTE
            49 EW LONS HIGH BYTE
641
            50 EW IONS LOW BYTE
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            49 EW IONS HIGH BYTE
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            50 EW IONS LOW BYTE
            49 EW
                  IONS HIGH BYTE
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            50 EW
                  IONS LOW BYTE
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            49 EW IONS HIGH BYTE
                  IONS LOW BYTE
654
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            50 EW
            49 EW IONS HIGH BYTE
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            50 EW (ONS-LOW BYTE
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657
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                  LONS HIGH BYTE
            SO EN IONS LOW BYTE
658
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657
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            50 EU IONS LOU- BYTE
660
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                  IONS HIGH BYTE
061
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            SO EN YONS LOW BYTE
      23
002
563
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            49 EW
                  LONS HIGH BYTE
664
      25
            50 EW
                  LONS LOW BYTE
645
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            AY EN LINE HIGH BYIL
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27
            SO EW IONS LOW BYTE
666
            49 EW IONS HIGH BYTE
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667
      29
            SO EW-TONS LOW BYTE
666
      29
            49 EW IONS HIGH BYTE
569
470
      31
            50 EW IONS LOW BYTE
571
      31
            49 EW IONS HIGH BYTE.
      33
            SO EW IDNS LOW BYTE
672
      33
               EW IONS HIGH BYTE
673
            49
      35
            50 EW IONS LOW BYTE
674
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               EW IONS HIGH BYTE
675
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676
            50 EW IONS LOW BYTE
677
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            49 EW IONS HIGH BYTE
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              EW IONS LOW BYTE
678
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674
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            49
               EW IONS HIGH BYTE
680
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              EW IONS LOW BYTE
               EW IONS HIGH BYTE
681
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            49
            50- EW IONS LOW BYTE
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682
              EW IONS HIGH BYTE
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               EW IONS LOW BYTE
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               EW IONS HIGH . BYTE
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               EW IONS LOW BYTE
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               EW IONS HIGH BYTE
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               EW IONS HIGH BYTE
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               EW IONS LOW BYTE
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691
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            50 EW IONS LOW-BYTE
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693
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              EW IONS HIGH BYTE
694
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            SO EW IONS LOW BYTE
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              EW IONS HIGH BYTE
695
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              EW IONS LOW BYTE
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              EW CONS HIGH BYTE
698
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            50 EW IONS LOW BYTE
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               EW IONS HIGH BYTE
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            SO EW LONS LOW BYTE
               EN IONS HIGH BYTE
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            50 EW IONS LOW BYTE
702
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               EW IONS HIGH BYTE
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            Số EW IONS LOW BYTE
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                  IUNS HIGH BYTE
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                   IONS LOW BYTE
706
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               EW
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               EW
                  IUNS HIGH BYTE
708
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               EN IONS LOW BYTE
            50
                  IONS HIGH BYTE
709
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               EW
110
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               EW
                  IONS LOW BYTE
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      71
                  IONS HIGH BYTE
711
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                  IONS LOW BYTE
712
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               EW
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713
                  IONS HIGH BYTE
            49
               EW
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714
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               EW
                   IONS LOW BITE
                   LONS HIGH BYTE
715
               EW
       77
                   IUNS LOW BYTE
716
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               EW
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117
                   IONS HIBH BYTE
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               EW
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                   IONS LOW BYTE
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               EW JUNS HIGH BYTE
            SO EW IONS LOW BYTE
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            49 EW LONS HIGH BYTE
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50 EW TONS LOW BYTE
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122
            49 EW LONS HIGH BYTE
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      93
            SO EW IONS LOW BYTE
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124
            49 EW IUNS HIGH BYTE
125
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            SO EW LONS LOW BYTE
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               FM THUS HIGH BALE
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            50 EW LONS LOW BYTE
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               EW TONS HIGH BYTE
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               LW JONS HIGH BYTE
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                  TONS LOW BYTE
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            50 EW LUNS LOW BYTE
744
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145
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            44 EW LUNS HIGH BYTE
            50 EW TONS LOW BYTE
740
      107
            49 EW TONS HIGH BYTE
      107
147
            SO EN LONS LOW BYTE
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      109
            49 EW LONS HIGH BYTE
149
            50 EW TUNS LOW BYTE
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      111
            49 EW IONS HIGH BYTE
751
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            SO EW LONS LOW BYTE
752
      113
            49 EW JUNS HIGH BYTE
753
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                   IONS LOW BYTE
      115
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            49 EW JUNS HIGH BYTE
      115
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                   JUNS LOW BYTE
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      117
            49 LW
                   IONS HIGH BYTE
151
158
      114
            SO EW
                   TUNS LOW BYTE
                   LONS HIGH BYTE
            49 EW
154
      119
                   IONS LOW BYTE
      121
            50 EW
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            49 EW
                   IONS HIGH BYTE
701
            SO EN
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 162
      123
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            49 EW
                   10NS HIGH BYTE
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            50 EW
      125
                   IONS LOW BYTE
704
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127
                   LONS HIGH BYTE
             49 EW
 :35
             50 EW
                   IONS LOW BYTE
 165
                   TUNS HIGH BYTE
             49 EW
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      127
             52 FD
                   TUNS LOW BYTE
 758
                   IONS HIGH BYTE
             51 FD
 164
                   IONS LOW BYTE
             52 FD
 170
             51 FD IONS HIGH BYTE
 171
             52 FD IUNS LOW BYTE
 112
                   IONS HIGH BYTE
 173
             51. FU
             52 FU LONS LOW BYTE
 774
 175
             51 FO LONS HIGH BYTE
             52 FU LUNS LOW BYTE
 116
             SI FE LUNG HIGH BYTE
 27:
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778
            52 FU IONS LOW BYTE
774
            51 FU
                  1005 HIGH BYTE
780
            52 FD
                  IONS LOW BYTE
781
                  IONS HIGH BYTE
            51 FU
782
            52 FD
                  IONS LOW BYTE
        7
783
            51 FD
                  IONS HIGH BYTE
784
        8
            52 FD
                  IONS LOW BYTE
785
       Ü
            51 FD
                  IONS HIGH LYTE
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                  IONS LOW BYTE
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            51 FU IUNS HIGH BYTE
                  IONS LOW BYTE
788
      10
            52 F 0
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            51 FD
                  LONS HIGH BYTE
790
      11
            52 FD
                  IONS LOW BYTE
791
            51 FD IONS HIGH BYTE
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792
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            52 FD IONS LOW BYTE
193
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            51 FU IONS HIGH BYTE
            52 FD IONS LOW BYTE
794
      13
795
      13
            51 FD JONS HIGH BYTE
796
            52 FU
                  LONS LOW BYTE
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797
            51 FD
                  IONS-HIGH BYTE
798
      15
            52 FD IONS LOW BYTE
794
      15
            51 FD IONS HIGH BYTE
400
      16
            52 FLI IONS LOW BYTE
801
      16
            51 FD IONS HIGH BYTE
      17
802
            52 FD
                  IONS LOW BYTE
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803
            51 FD
                  IUNS HIGH BYTE
804
      18
            52 FD
                  IONS LOW BYTE
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            51 FD
                  JONS HIGH BYTE
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                  IONS LOW BYTE
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                  IONS HIGH BYTE
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            52 FD
                  IONS LOW BYTE
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            51 FD
                  IONS HIGH BYTE
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      21
            52 FD IONS LOW BYTE
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            51 FD
      21
                  LONS HIGH BYTE
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            52 FD
                  IONE LOW BYTE
      22
            51 FD
                  IONS HIGH BYTE
813
      23
H14
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                  IONS LOW BYTE
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      23
            51 FU
                  10NS HIGH BYTE
816
      24
            52 FD
                  IONS LOW BYTE
817
      24
            51 FD IONS HIGH BYTE
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818
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                  IONS LOW BYTE
      25
1119
            51 FD
                  IONS HIGH BYTE
820
      26
            52 FD
                  IONS LOW BYTE
921
      26
            S1 FD
                  IONS HIGH BYTE
822
      27
            52 FU IONS LOW BYTE
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                  IONS HIGH BYTE
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            51 FD
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            52 FD IONS LOW BYTE
825
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            51 F0
                  IONS HIGH BYTE
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                   IONS HIGH BYTE
830
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            52 FD
                  IUNS LOW BYTE
831
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            51 FD
                  IONS HIGH BYTE
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52 FD IONS LOW BITE
332
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               FD IONS HIGH BYTE
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333
               FO TONS LOW BYTE
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834
               FL LONS HIGH BYTE
845
            51
          . 52 FU LONS LOW BYTE
      34
436
            51 FD IONS HIGH BYTE
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831
            52 FD CONS LOW BYTE
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938
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839
                  IONS LOW BYTE
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840
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H41
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                  IONS HIGH BYTE
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844
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            51 FD
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345
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846
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                   IONS LOW BYTE
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                   IONS HIGH BYTE
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             52 FD IONS LOW BYTE
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850
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                    IONS HIGH BYTE
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                MAGNETOMETER Y
1239
             67
1240
        49
                MAGNETOMETER
                              Y
             67
1241
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             67
                MAGNETOMETER Y - FINE
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             67
                MAGNETOMETER Y - FINE
             67
1243
       55
                MAGNETOMETER
                               Y
1244
       57
             67
                MAGNETOMETER
                               Y
                                   FINE
1245
       59
                MAGNETOMETER
                               Y
1246
       61
                MAGNETOMETER
                               Y
1247
       63
             67
                MAGNETOMETER
                               Y
1248
       45
             67
                MAGNETOMETER
                               Y
1249
                MAGNETOMETER
       67
             67
                               Y
1250
       69
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                MAGNETOMETER Y
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       71
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                MAGNETOMETER Y - FINE
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       73
                MAGNETOMETER
             67
                                - FINE
1253
       75
                MAGNETOMETER
             67
                              Y
1254
       77
                MAGNETOMETER
                              Y - FINE
             67
1255
       79
                MAGNETOMETER
                                - FINE
                              Y
                MAGNETOMETER
                                - FINE
1256
       81
             67
                              Y
1257
       83
             67
                MAGNETOMETER
1258
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1259
       87
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                MAGNETOMETER
                                 - FINE
1260
       89
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                MAGNETOMETER
                              Y - FINE
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       91
             67
                MAGNETOMETER
1262
       93
             67
                MAGNETOMETER
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                MAGNETOHETER
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1264
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                                 - FINE
      101
1266
                MAGNETOMETER
                                 - FINE
      103
                HAGNETOMETER
1267
                MAGNETOMETER
1268
      105
                MAGNETOMETER
1269
      107
             67
                MAGNETOHETER
1270
      109
             67
                MAGNETOMETER
1271
      111
1272
      113
             67
                MAGNETOMETER
                               Y
                                   FINE
1273
      115
                MAGNETOMETER
1274
      117
                MAGNETOMETER
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1275
      119
                MAGNETOMETER
1276
      121
                MAGNETOHETER
             67
1277
      123
                MAGNETOMETER
             67
1278
      125
                MAGNETOHETER
             67
                              Y
                                   FINE
1279
      127
                MAGNETONETER Y
             67
```

" 有 、 水

PARTY OF THE PARTY

11.0

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48 MAGNETOMETER Z - COARSE
1280
        1
            68 MAGNETOMETER Z - CDARSE
        3
1281
                MAGNETOMETER
                                  COARSE
                             Z
1282
                                  COARSE
        ž
             68 MAGNETOMETER Z
1283
             48 MAGNETOMETER Z - COARSE
        9
1284
                             Z
                               -
                                  COARSE
             AS MAGNETOMETER
1285
       11
             68 HAGNETOMETER Z - COARSE
       13
1286
             68 MAGNETOMETER Z -
                                  COARSE
       15
1287
                                  COARSE
               MAGNETOMETER
                              Z -
       17
             8
1288
                              Z -
                                  COARSE
               MAGNETOMETER
       19
             48
1289
                                  COARSE
               MAGNETOMETER Z -
1290
       21
             48
                MAGNETOMETER Z
                                  COARSE
                                -
       23
             48
1291
             68 MAGNETOMETER Z
                                  COARSE
       25
1292
             68 MAGNETOMETER Z
                                  COARSE
       27
1293
             68 MAGNETOMETER Z - COARSE
       29
1294
             68 MAGNETOMETER Z - COARSE
1295
       31
             68 MAGNETOMETER Z - COARSE
1296
       33
             48 MAGNETOMETER Z - COARSE
       35
1297
             68 MAGNETOMETER Z - COARSE
       37
1298
                MAGNETOMETER Z - COARSE
       39
             68
1299
                MAGNETOMETER Z - COARSE
        41
             48
1300
                MAGNETOMETER Z - COARSE
        43
             48
1301
                MAGNETOMETER Z - COARSE
        45
             48
1302
                MAGNETOMETER Z -
                                  CDARSE
        47
1303
                MAGNETOMETER Z -
        49
             68
                                  COARSE
1304
             68 MAGNETOMETER Z - COARSE
1305
       51
             68 MAGNETOMETER Z - COARSE
1306
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                MAGNETOMETER Z - COARSE
        55
1307
                MAGNETOMETER Z - COARSE
        57
1308
                MAGNETOMETER Z -
                                  CDARSE
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1309
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        61
1310
                MAGNETOMETER Z - COARSE
        63
             48
1311
                MAGNETOMETER Z - COARSE
        65
1312
                MAGNETOMETER Z - COARSE
        67
1313
             48
                MAGNETONETER Z - COARSE
        69
             68
1314
                MAGNETOMETER Z - COARSE
        71
1315
                MAGNETOHETER Z
                                - COARSE
        73
1316
                MAGNETOMETER Z - COARSE
        75
1317
                MAGNETOMETER Z -
                                  COARSE
        77
1318
        79
                MAGNETOMETER Z -
                                  COARSE
1319
                MAGNETOMETER Z -
                                  COARSE
1320
        81
                MAGNETOMETER Z -
                                   COARSE
        83
1321
                MAGNETOMETER Z -
                                   COARSE
1322
        85
1323
        87
             86
                MAGNETOMETER Z
                                   COARSE
                HAGNETOMETER Z
                                   COARSE
1324
        89
        91
                MAGNETOMETER Z
1325
             48
                                   COARSE
                MAGNETOMETER Z -
                                   COARSE
        93
1326
                HAGNETOHETER Z -
                                   COARSE
        95
1327
                MAGNETOMETER Z -
                                   COARSE
        97
1328
                MAGNETOMETER Z
                                   COARSE
        99
1329
                 MAGNETOHETER Z
                                   COARSE
1330
       101
             48
                 MAGNETOHETER Z
                                   COARSE
1331
       103
                 MAGNETOMETER Z
                                   COARSE
1332
       105
             48
                 MAGNETOMETER Z
1333
       107
                                   COARSE
                MAGNETOHETER Z -
1334
       109
                                   COARSE
             48 MAGNETOMETER Z - COARSE
 1335
       111
```

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The second second

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1336
          113
                 68 MAGNETOMETER Z - COARSE
    1337
          115
                    MAGNETOMETER Z
                                       COARSE
   1338
          117
                    MAGNETOMETER Z
                                     _
                                       COARSE
   1339
          119
                    MAGNETOMETER Z
                 48
                                       COARSE
   1340
          121
                    MAGNETOMETER Z
                 48
                                    - COARSE
   1341
          123
                 48
                    MAGNETOMETER Z
                                       COARSE
   1342
          125
                    MAGNETOMETER Z
                 68
                                       COARSE
   1343
          127
                48
                    MAGNETOMETER Z
                                       CDARSE
   1344
            1
                69
                   MAGNETOMETER Z
                                    - FINE
   1345
                69
                   MAGNETOMETER Z
                                      FINE
   1346
            5
                69
                   MAGNETOMETER Z
                                      FINE
   1347
                   MAGNETOMETER Z - FINE
                69
   1348
            9
                69
                   MAGNETOMETER Z
                                    - FINE
   1349
          11
                69
                   MAGNETOMETER Z
                                    - FINE
   1350
          13
                69
                   MAGNETOMETER Z
                                    - FINE
   1351
          15
                69
                   MAGNETOMETER Z
                                    - FINE
  1352
          17
                49
                   MAGNETOMETER Z
                                    - FINE
  1353
          19
                69
                   MAGNETOMETER Z
                                    - FINE
  1354
          21
                   MAGNETONETER
                69
                                 Z
  1355
          23
                69
                   MAGNETOMETER
                                 Z
                                      FINE
  1356
          25
               69
                   MAGNETOMETER
                                 Z
                                     FINE
  1357
          27
                   MAGNETOMETER
               69
                                 Z
  1358
          29
               69
                   MAGNETOMETER Z -
  1359
          31
                   MAGNETOMETER Z
                                   - FINE
  1360
          33
               69
                   MAGNETOMETER
                                 Z
  1361
          35
                  MAGNETOMETER Z
                                     FINE
  1362
          37
               69
                  MAGNETOMETER
                                 Z
                                     FINE
  1363
         39
               69
                  MAGNETOMETER
                                 Z
                                     FINE
  1364
         41
               69
                  MAGNETOMETER Z
                                   - FINE
  1365
         43
               69
                  MAGNETOMETER Z
  1366
         45
               69
                  MAGNETOHETER
                                Z
 1367
         47
               69
                  MAGNETOMETER
                                Z -
 1348
         49
               69
                  HAGNETONETER
                                Z
                                     FINE
 1369
         51
                  MAGNETOMETER
              49
 1370
         53
                  MAGNETONETER
              69
                                Z
                                     FINE
 1371
         55
              69
                 MAGNETOMETER
                                Z
                                    FINE
 1372
         57
              69
                 MAGNETONETER
                                    FINE
 1373
         59
              69
                 MAGNETOMETER
                                Z
                                    FINE
 1374
         61
              69
                 MAGNETOMETER
                                    FINE
 1375
         63
              69
                 MAGNETOMETER
 1376
         65
                 MAGNETONETER
              69
                                Z
 1377
        67
                 MAGNETOHETER
              40
                                Z
 1378
        69
                 HAGNETOHETER
              49
                                Z
 1379
        71
              69
                 MAGNETOMETER
                               Z
 1380
        73
              69
                 MAGNETOMETER
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        75
              49
                 MAGNETOMETER
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        77
                 MAGNETOMETER Z
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1383
        79
             69
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        81
             69
                MAGNETOMETER
1385
        83
                MAGNETOMETER
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             69
                               Z
                                 - FINE
1387
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             69
                MAGNETOMETER
                               Z
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        89
             69
                MAGNETOHETER Z
1389
       91
             69
                MAGNETOMETER Z
                                 - FINE
1390
       93
             69
                MAGNETOMETER Z
                                 - FINE
1391
       95
             69
                MAGNETOMETER Z - FINE
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The second second second

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MAGNETOMETER Z - FINE
       97
1392
                                - FINE
1393
       99
                MAGNETOMETER
                              Z
                                  FINE
                MAGNETOMETER Z
1394
      101
                                  FINE
1395
      103
                MAGNETOMETER
                              Z -
13 5
      105
                MAGNETOMETER
                              Z
                                  FINE
                              Z - FINE
13
      107
                MAGNETOMETER
                MAGNETOMETER Z
1378
      109
             40
                MAGNETOMETER
                                - FINE
1399
      111
             69
1400
      113
             69
                MAGNETOMETER
                              Z - FINE
                MAGNETOMETER Z - FINE
      115
             49
1401
                MAGNETOMETER Z - FINE
1402
      117
                MAGNETOHETER Z - FINE
1403
      119
                MAGNETOMETER Z - FINE
      121
             49
1404
                MAGNETOMETER Z - FINE
1405
      123
       125
             69
                MAGNETOMETER Z - FINE
1406
                MAGNETOMETER Z - FINE
       127
1407
1408
                MAGNETONETER DIRECTION
             73
        1
1409
                MAGNETOMETER DIRECTION
                MAGNETOMETER BIRECTION
       17
1410
             73
        25
             73
                MAGNETOMETER DIRECTION
1411
                MAGNETOMETER -DIRECTION
1412
       33
            · 73
1413
        41
                MAGNETOMETER DIRECTION
                MAGNETOMETER DIRECTION
1414
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                MAGNETOMETER DIRECTION
1415
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1416
                MAGNETUMETER DIRECTION
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        97
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1421
             73 MAGNETOMETER DIRECTION
1422
       113
                MAGNETONETER DIRECTION
1423
             73 MAGNETUMETER DIRECTION
       121
       ...1
                MAGNETOMETER DIRECTION
1424
             74
                MAGNETOMETER DIRECTION
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             74
                MAGNE COMETER DIRECTION
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1426
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        25
                MAGNETOMETER DIRECTION
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        33
                MAGNETOMETER DIRECTION
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1429
        41
             74 HAGNETOMETER DIRECTION
                                          Y
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        49
             24 MAGNETOMETER-DIRECTION
            . 74 MAGNETOMETER DIRECTION
1431
        57
                                          Y
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                MAGNETOMETER. DIRECTION
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             74
                MAGNETUMETER DIRECTION
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                MAGNETOMETER DIRECTION
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                                          Y
        89
             74 MAGNETOMETER DIRECTION
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        77
                MAGNETOMETER DIRECTION.
1434
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                MAGNETOMETER DIRECTION
1437
       113
                MAGNETOMETER DIRECTION
1438
       121
             74 MAGNETOMETER DIRECTION
1439
             75
                MAGNETOMETER DIRECTION
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         9
                MAGNETOMETER DIRECTION
1441
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1442
        17
             75 HAGNETOMETER DIRECTION
        25
                MAGNETOMETER BIRECTION
1443
                MAGNETOMETER DIRECTION
1444
        33
                MAGNETOMETER DIRECTION
1445
        41
                MAGNETUMETER DIRECTION
                                          Z
1446
        44
             75
                MAGNETUMETER DIRECTION Z
1447
        57
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1448
        45
             75 MAGNETOMETER DIRECTION
1449
        73
             75 MAGNETOMETER DIRECTION
1450
        81
             75 HAGNETOMETER DIRECTION
1451
        89
             75 MAGNETOMETER DIRECTION
1452
        97
             75 HAGNETOMETER DIRECTION
1453
       105
             75 MAGNETOMETER DIRECTION Z
1454
       113
             75 MAGNETOMETER DIRECTION Z
1455
       121
             75 MAGNETOMETER DIRECTION Z
1456
       107
            102 +DVNS
1457
      108
            102 -DUNS
1458
       109
            102 +DVEW
1459
            102 -DVEW
       110
1460
      111
          -102 +DVFD
1461
      112
            102 -DVFD
            102 SVNS
1462
      113
           102 SVEW
1463
      114
1464
      115 -102 SVFD
1465
      116
           102 TNS
1466
      117 -- 102 TEW
1467
      118
            102 TMB
1468
      119
            102 TPCU
1469
      120
            102 NS POS
1470
      121
            102 EW POS.
1471
      122
           102 PCU MONITOR
1472
            110 NS ANALOG POSITION
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1475
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28
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110 NS ANALOG POSITION
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            110-NS
1477
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        44
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1479
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        60
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        48
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1480
        76
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                   ANALOG POSITION
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1482
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                    ANALOG POSITION
        92
1483
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                   ANALOG POSITION
                   ANALOG POSITION
1484
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1485
       108
            110 NS ANALOG POSITION
1486
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1487
       124
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1488
        5
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1489
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1490
        21
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1491
        29
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1492
        37
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1493
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1494
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            140 EW ANALOG POSITION
1495
        61
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                   ANALOG PUSITION
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1497
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1501
       109
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            110 EW ANALUG POSITION
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The second second

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        0
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1506
        8
            35 MSB--<0><0><0><0><PU1B1><PU1B2><PU1B3><PU1B4>--LSB
1507
            36 PV1
        Я
1508
       16
            35 MSB--<0><0><0><0><PV1B1><PV1B2><PV1B3><PV1B4>--LSB
1509
       16
            36 PV1
1510
       24
            35 MSB--<0><0><0><0><PV1B1><PV1B2><PV1B3><PV1B4>--LSB
1511
       24
            36 PV1
1512
       32
            35 MSB--<0><0><0><0><PV1B1><PV1B2><PV1B3><PV1B4>--LSB
1513
       32
            36 PV1
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       40
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1515
       40
            36 PV1
1516
       48
            35 MSB--<0><0><0><0><PV1B1><PV1B2><PV1B3><PV1B4>--LSB
1517
       48
            36
               PV1
1518
       56
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1519
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            36 PV1
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       64
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            36 PV1
       64
1522
       72
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1523
       72
            36 PV1
1524
       80
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            36 PV1
1525
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       88
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1527
       88
            36 PV1
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       96
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       96
            36 PV1
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            36 PV1
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      112
1532
1533
      112
            36 PV1
1534
      120
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1535
      120
            36 PV1
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        0
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1539
        8
             6 PV2
1540
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       16
1541
       16
             6 PV2
1542
       24
             5 MSB--<0><0><0><0><PU2B1><PV2B2><PU2B3><PU2B4>--LSB
1543
       24
               PUD
             á
1544
       32
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       32
1545
             6 PV2
       40
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1546
1547
       40
               PU2
1548
       48
             1549
       48
               PV2
1550
       56
             5 MSB--<0><0><0><0><PV2B1><PV2B2><PV2B3><PV2B4>--LSB
1551
       56
               PV2
             5 MSB--<0><0><0><0><PV2B1><PV2B2><PV2B3><PV2B4>--LSB
1552
       64
1553
       64
               PV2
1554
       72
             5 M8B--<0><0><0><0><PV2B1><PV2B2><PV2B3><PV2B4>--LSB
1555
       72
               PU2
1554
       80
               HSB--<0><0><0><0><PV2B1><PV2B2><PV2B3><PV2B4>--LSB
       80
1557
               PV2
1558
       88
             5
               MSB--<0><0><0><0><PV2B1><PV2B2><PV2B3><PV2B4>--LSB
               PV2
1559
       88
```

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1560
       96
              5 MSB--<0><0><0><0><PV2B1><PV2B2><PV2B3><PV2B4>--LSB
1561
       96
                PV2
1562
      104
              5 MSB--<0><0><0><0><PV2B1><PV2B2><PV2B3><PV2B4>--LSB
1563
               PV2
      104
1564
      112
               MSB--<0><0><0><0><PV2B1><PV2B2><PV2B3><PU2B4>--LSB
1565
      112
                PV2
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      120
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1567
      120
               PV2
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        6
1568
           103 MSB--<BCF1><BCF2><BCF3><BCF4><BCF5><BON><BDCF><BFF1>--LSB
1569
       16
           103 MSB--<BCF1><BCF2><BCF3><BCF4><BCF5><B0N><BDCF><BFF1>--LSB
1570
       32
           103 MSB--<BCF1><BCF2><BCF3><BCF4><BCF5><BON><BDCF><BFF1>--LSB
       48
1571
           103 MSB--<BCF1><BCF2><BCF3><BCF4><BCF5><BON><BDCF><BFF1>--LSB
1572
       64
           103 MSB--<BCF1><BCF2><BCF3><BCF4><BCF5><BON><BDCF><BFF1>--LSB
1573
       80
           103 MSB--<BCF1><BCF2><BCF3><BCF4><BCF5><BON><BDCF><BFF1>--LSB
1574
       96
           103 MSB--<BCF1><BCF2><BCF3><BCF4><BCF5><BON><BDCF><BFF1>--LSB
1575
      112
1576
            103 MSB--<BFF2><BEF1><BEF2><BEF3><BEF4><GCDF><BCSF><NBPF>--LSB
1577
       17
            103 MSB--<BFF2><BEF1><BEF2><BEF3><BEF4><GCDF><BCSF><NBPF>--LSB
1578
       33
           103 MSB--<BFF2><BEF1><BEF2><BEF3><BEF4><GCDF><BCSF><NBPF>--LSB
1579
       49
           103 MSB--<BFF2><BEF1><BEF2><BEF3><BEF4><GCDF><BCSF><NBPF>--LSB
1580
       65
           103 MSB--<BFF2><BEF1><BEF2><BEF3><BEF4><GCDF><BCSF><NBPF>--LSB
       81
1581
           103 MSB--<BFF2><BEF1><BEF2><BEF3><BEF4><GCDF><BCSF><NBPF>--LSB
       97
           103 MSB--<BFF2><BEF1><BEF2><BEF3><BEF4><GCDF><BCSF><NBPF>--LSB
1582
1583
           103 MSB---<BFF2><BEF1><BEF2><BEF3><BEF4><GCDF><BCSF><NBPF>--LSB
      113
1584
            21 BEAM CURRENT HI
        ٥
1585
        8
            21 BEAM CURRENT HI
1586
       16
            21 BEAM CURRENT HI
1587
       24
            21 BEAM CURRENT HI
            21 BEAM CURRENT HI
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            21 BEAM CURRENT HI
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            21 BEAM CURRENT HI
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       96
            21 BEAM CURRENT HI
            21 BEAM CURRENT HI
1597
      104
1598
      112
            21 BEAM CURRENT HI
1599
      120
            21 BEAM CURRENT HI
1600
        0
            22 BEAM CURRENT MONITOR
1601
        8
            22 BEAM CURRENT MONITOR
1602
            22 BEAM CURRENT MONITOR
       16
1603
       24
                     CURRENT
            22 BEAM
                             MONITOR
1604
       32
            22 BEAM
                     CURRENT MONITOR
1605
       40
            22 BEAM
                     CURRENT
                             MONITOR
1606
       48
            22
               BEAM
                     CURRENT MONITOR
1607
       56
               BEAH
                     CURRENT MONITOR
1408
       64
            22 BEAM CURRENT MONITOR
1609
       72
            22 BEAM CURRENT MONITOR
       80
            22 BEAM CURRENT MONITOR
1610
1611
       88
            22 BEAM CURRENT MONITOR
       94
                     CURRENT MONITOR
1612
            22 BEAM
      104
                     CURRENT MONITOR
1613
            22 BEAM
1614
      112
            22
               BEAM CURRENT MONITOR
1615
      120
            22 BEAM CURRENT MONITOR
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            23 NEUTRALIZER EMISSION
1617
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            23 NEUTRALIZER EMISSION
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            23 NEUTRALIZER EMISSION
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            23 NEUTRALIZER EMISSION
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            23 NEUTRALIZER EMISSION
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            23 NEUTRALIZER EMISSION
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            23 NEUTRALIZER EMISSION
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            23 NEUTRALIZER EMISSION
1624
            23 NEUTRALIZER EMISSION
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            23 NEUTRALIZER EMISSION
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            23 NEUTRALIZER EMISSION
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            23
               NEUTRALIZER EMISSION
1628
            23 NEUTRALIZER EMISSION
       96
1629
      104
            23 NEUTRALIZER EMISSION
1630
      112
            23 NEUTRALIZER EMISSION
1631
      120
            23 NEUTRALIZER EMISSION
1632
        0
            24 SPIBS NEUT CURRENT MONITOR
1633
        8
            24 SPIBS NEUT CURRENT MONITOR
1634
       16
            24 SPIBS NEUT CURRENT MONITOR
1635
       24
            24 SPIBS NEUT CURRENT MONITOR
1636
       32
            24
               SPIBS NEUT CURRENT MONITOR
1637
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            24 SPIBS NEUT CURRENT MONITOR
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            24 SPIBS NEUT CURRENT MONITOR
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            24 SPIBS NEUT CURRENT MONITOR
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            24 SPIBS NEUT CURRENT MONITOR
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            24 SPIBS NEUT CURRENT MONITOR
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            24 SPIBS NEUT CURRENT MONITOR
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       96
            24 SPIBS NEUT CURRENT MONITOR
1645
      104
            24 SPIBS NEUT CURRENT MONITOR
1646
      112
            24 SPIBS NEUT CURRENT MONITOR
            24 SPIBS NEUT CURRENT MONITOR
1647
      120
           112 DISCHARGE CURRENT
1648
       20
           112 DISCHARGE CURRENT
1649
1650
           112 DISCHARGE CURRENT
       36
1651
       52
           112 DISCHARGE CURRENT
       68
1652
           112 DISCHARGE CURRENT
1653
       84
           112 DISCHARGE CURRENT
           112 DISCHARGE CURRENT
1654
      100
1455
           112 DISCHARGE CURRENT
      116
1656
       55
           102 HIGH VOLTAGE MONITOR
1657
           102 VOLTAGE MONITOR 1
       56
1658
       57
           102 VOLTAGE MONITOR 2
1659
           102 BEAM VOLTAGE MONITOR
       60
1660
       63
           102 KEEPER CURRENT MONITOR
1661
       62
           102 KEEPER HIGH VOLTAGE MONITOR
1662
       71
           102 ACCELERATOR CURRENT MONITOR
           102 DECELERATOR CURRENT MONITOR
1663
       72
1664
       73
           102 NEUTRALIZER HTR CURRENT MONITOR
1665
       74
           102 NEUTRALIZER BIAS VOLTAGE MONITOR
       12
            103 NON CRITICAL BUS VOLTAGE
1666
1667
       28
            103 NON CRITICAL BUS VOLTAGE
1668
       44
           103
               NON
                    CRITICAL BUS VOLTAGE
                    CRITICAL BUS VOLTAGE
       60
            103 NON
1669
       76
1670
            103 NON CRITICAL BUS VOLTAGE
1671
           103 NON CRITICAL BUS VOLTAGE
       92
```

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1672
       108
            103 NON CRITICAL BUS VOLTAGE
            103 NON CRITICAL BUS VOLTAGE
 1673
       124
           . 108 NON CRITICAL BUS CURRENT #1
1674
1675
            108 NON CRITICAL BUS CURRENT #1
        17
1676
            108 NON CRITICAL BUS CURRENT #1
        33
 1677
        49
            108 NON CRITICAL BUS CURRENT #1
 1678
        5
            108 NON
                    CRITICAL BUS CURRENT #1
                    CRITICAL BUS CURRENT #1
 1679
        81
            108 NON
            108 NON CRITICAL BUS CURRENT #1
        97
 1680
 1681
       113
            108
                NON CRITICAL BUS CURRENT #1
            108 NON CRITICAL BUS CURRENT #2
 1682
 1683
        18
            108 NON CRITICAL BUS CURRENT #2
 1684
            108 NON CRITICAL BUS CURRENT #2
        34
 1685
        50
            108 NON CRITICAL BUS CURRENT #2
1686
        56
            108 NON CRITICAL BUS CURRENT #2
1687
        82
            108 NON CRITICAL BUS CURRENT #2
1688
        98
            108 NON CRITICAL BUS CURRENT #2
1689
       114
            108 NON CRITICAL BUS CURRENT #2
1690
             42 SOLAR ARRAY TEMP #1
        43
1691
             42 SOLAR ARRAY TEMP #2
        44
1692
        56
             42 SOLAR ARRAY TEMP 43
1693
        46
             42 SOLAR ARRAY TEMP #4
        2
1694
            109 SOLAR ARRAY CURRENT #1
1695
        10
            109 SOLAR ARRAY CURRENT #1
1696
        18
            109 SOLAR ARRAY CURRENT #1
            109 SOLAR ARRAY CURRENT #1
1697
        26
 1698
        34
            109 SOLAR ARRAY CURRENT #1
        42
            109 SOLAR ARRAY CURRENT #1
 1699
        50
            109 SOLAR ARRAY CURRENT $1
 1700
 1701
        58
            109 SOLAR ARRAY CURRENT #1
1702
        66
            109 SOLAR ARRAY CURRENT #1
1703
        74
            109 SOLAR ARRAY CURRENT #1
1704
        82
            109 SOLAR ARRAY CURRENT #1
1705
        90
            109 SOLAR ARRAY CURRENT #1
1706
        98
            109 SOLAR ARRAY CURRENT #1
1707
       106
            109 SOLAR ARRAY CURRENT #1
1708
       114
            109 SOLAR ARRAY CURRENT #1
1709
       122
            109 SOLAR ARRAY CURRENT #1
1710
        2
            110 SOLAR ARRAY CURRENT #2
 1711
            110 SOLAR ARRAY CURRENT #2
        10
 1712
        18
            110 SOLAR ARRAY CURRENT #2
 1713
        26
            110 SOLAR ARRAY CURRENT #2
 1714
        34
            110 SOLAR ARRAY CURRENT #2
 1715
        42
            110 SOLAR ARRAY CURRENT #2
 1716
        50
            110 SOLAR ARRAY CURRENT #2
 1717
        58
            110 SOLAR ARRAY CURRENT #2
 1718
            110 SOLAR ARRAY CURRENT #2
        66
 1719
        74
            110 SOLAR ARRAY CURRENT $2
 1720
        82
            110 SOLAR ARRAY CURRENT #2
 1721
        90
            110 SOLAR ARRAY CURRENT #2
1722
        98
            110 SOLAR ARRAY CURRENT #2
1723
       106
            110 SOLAR ARRAY CURRENT #2
            110 SOLAR ARRAY CURRENT #2
 1724
       114
       122
 1725
            110 SOLAR ARRAY CURRENT 42
        47
             42 SHUNT REGULATOR TEMP
1726
 1727
        48
             42 PCU TEMP 1
```

1728	O	106	STATUS	DCC
	_	106	STATUS	DCC
1729	2	106	STATUS	DCC
1730 1731	3	106	STATUS	DCC
1/32	. 8	106	STATUS	
1/33	10	106	STATUS	DCC
1734	12	106	STATUS	DCC
1735	14	106	STATUS	DCC
1736	16	106	STATUS	DCC
1/37	18	106	STATUS	DCC
1738	20	106	STATUS	
1/39	22	106	STATUS	DCC
1740	24	106	STATUS.	DCC
1741	26	106	STATUS	DCC
1/42	28	106	STATUS	DCC
1743	30	106	STATUS	DCC
1/44	32	106	STATUS.	
1745	34	103	STATUS	DCC
1746	36	106	STATUS	DCC
1747	38	106		DCC
1748	40	106	STATUS	DCC
1749	42	106	STATUS	DCC
1750	44	106	STATUS	DCC
1751	46	106	STATUS	DCC
1752	48	106	STATUS	DCC
1/53	. 50	106		DCC
1/54	52	106	STATUS	DCC
1/55	54	106	STATUS	DCC
1756	56	106	STATUS	
1/57	58	106	STATUS	DCC
1758	60	106	STATUS.	
1759	62	104	STATUS	DCC
1760	64	106	STATUS	DCC
1761	66	106	STATUS	DCC
1762	68	106	STATUS	BCC
1763	70	106	STATUS	DCC
1764	72	106	STATUS	
1765	74	106	STATUS	DCC
1760	76	100	STATUS	DCC
1767	78	106	STATUS.	DCC
1768	80	106	STATUS	DCC
1764	82	106	STATUS	DCC
1770	84	104	STATUS	DCC
1/71	86	106	STATUS	DCC
1772	88	106	STATUS	DCC
1/73	90	106	STATUS	DCC
1774	92	106	STATUS	DCC
1775	94	106	STATUS	DCC
1776	96	106	STATUS	DCC
1777	98	106	STATUS	DCC
1778	100.	106	STATUS	
1779	102	106	STATUS	DCC
1780	104	106	SUTATE	
1781	106	106	STATUS	DCC
1792	108	106	STATUS	DCC
1.783	110	100	SUTATE	DCC

```
106 STATUS DCC
      112
1784
            106 STATUS DCC
1/85
      114
1746
            106 STATUS DCC
      116
1.787
      118
            106 STATUS DCC
            106 STATUS DCC
1788
      120
            106 STATUS DCC
1789
      122
            106 STATUS DCC
1790
       124
1771
            106 STATUS DCC
1/92
            106 STATUS NSP
        1
1793
            106 STATUS MSB.
1794
            106 STATUS NSP
1795
       13
            106 STATUS MSB.
1796
       17
           -106 STATUS NSP
1797
       21
            106 STATUS MSB-
1798
       25
            106 STATUS NSP
1799
       29
            106 STATUS MSB.
1800
       33
            106 STATUS NSP
1801
       37
            106 STATUS MSB
1802
       41
            106 STATUS NSP
1803
       45
            106 STATUS MSB
1804
       49
            106 STATUS NSP
       53
1805
            106 STATUS MSB
1804
       57
            106 STATUS NSP
1807
       61
            106 STATUS MSB.
1808
       65
            106 STATUS NSP NOTE:
                                    Odd numbered lines 1793-1856 have
            106 STATUS MSR-been slightly scrambeled on our tape.
1809
       69
            106 STATUS NSP These lines should be filled with:
1910
       73
            106 STATUS MSB---<CCWEW>--<EWPB11>--<EWPB9>--<C
1811
       77
            106 STATUS NSP CWNS>-<NSPB11>-<NSPB10>--CNSPB9>--LSB
1812
       81
            106 STATUS MSB-
1813
       85
       89
1814
            106 STATUS NSF
1815
        93
            106 STATUS MSB
1816
        97
            106 STATUS NSP
1817
       101
            106 STATUS MSB
1218
      105
            106 STATUS NSP
1319
      109
            106 STATUS MSB
1820
      1.13
            106 STATUS NSP
1821
      117
            106 STATUS MSB-
            106 STATUS NSP
1822
      121
1823
      125
            106 STATUS MSB-
            106 STATUS EWP
1824
1825
         5
            106 STATUS MSB-
1826
        11
            106 STATUS EUP
1827
        13
            106 STATUS MSB
1829
        19
            106 STATUS EUP
1827
            106 CTATUS MSB-
        21
1430
        21
            106 STATUS EWP
        29
            106 STATUS MSB-
1831
        35
            106 STATUS EWP
1832
1033
        37
            106 STATUS MSB.
1934
        43
            106 STATUS ENP
1835
        45
            106 STATUS MSB-
1834
        51
            106 STATUS EWP
1837
        53
            106 STATUS MSB-
1838
        59
            106 STATUS EWP
```

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106 STATUS MSB--<0><0><0><0><CCWEW><EWPB11><LWPb10><EWPB9:--LSB
 839
1940
       67
            106 STATUS EWP
:841
       69
           106 STATUS MSB~-<0><0><0><0><CCWEW><EWPB11><EWPB10><EUPb9>--LSB
1842
       75
           106 STATUS EWP
       77
           106 STATUS MSB--<0><0><0><0><CCWEW><EWPB11><EWPB10><EWPB9>--LSA
1843
           106 STATUS EWP
       83
1844
       85
           106 STATUS MSB--<0><0><0><0><CCWEW><EWPB11><EWPB10><EWPb9>--LSS
1845
       91
           106 STATUS EMP
1446
       93
           106 STATUS mSB--<0><0><0><0><CCWEW><EUPB11><EWPB10><EUPB9>--LSB
LUAZ
       44
1848
           106 STATUS EWP
1649
      101
           106 S!ATUS MS8--<0><0><0><0><CCWEW><EWP811><EWP810><EUP89>---LSE
1820
      107
           106 STATUS EUP
1351
      109
           106 STATUS MSB--<0><0><0><0><CCWEW><EWPB11><EWPB10><EWPB9>--LSE
1852
      115
           106 STATUS ENP
1853
      117
           106 STATUS MSB--<0><0><0><0><CCWEW><EWPB11><EWPB10><EWPB9 ---LSE
1854
      123
           106 STATUS EWP
      125
           104 STATUS MSB--<0><0><0><0><CCWEW><EWPB11><EWPB10><EWPS9>--LSS
£055
       7
1854
           106 STATUS NSLL
1357
       15
           106 STATUS NSUL
       23
           106 STATUS EWLL
1858
1859
       31
           106 STATUS EWUL
       39
           106 STATUS NSPS
1860
       47
1861
           106 STATUS EWPS
1862
       55
           106 STATUS DT
1863
       ٤3
           106 STATUS DN
1864
       71
            106 STATUS ID1
845
       74
            106 STATUS DSS
       87
466
           106 STATUS AG
.837
       Ÿ5
            106 STATUS MP
1848
      103
            106 STATUS LATCHING COMMANUS 1-7
1869
      111
            106 STATUS LATCHING COMMANDS 8-14
      119
1870
            106 STATUS MAGNITUDE COMMANDS 1-8
1871
      127
            106 STATUS MAGNITUDE COMMANDS 9-16
           109 ELECTRIC CHANNEL 1
1872
           109 ELECTRIC CHANNEL 1
1873
       11
           109 ELECTRIC CHANNEL 1
       19
1874
       27
          109 ELECTRIC CHANNEL 1
1875
       35
          109 ELECTRIC CHANNEL 1
1876
       43
          109 ELECTRIC CHANNEL 1
1877
1878
       51
          109 ELECTRIC CHANNEL 1
1879
       59
          109 ELECTRIC CHANNEL 1
1880
      67
          109 ELECTRIC CHANNEL 1
          109 ELECTRIC CHANNEL 1
       75
1881
          109 ELECTRIC CHANNEL 1
1882
       83
       91
          109 ELECTRIC CHANNEL 1
1883
1884
       99
          109 ELECTRIC CHANNEL 1
1885
      107
           109 ELECTRIC CHANNEL 1
          109 ELECTRIC CHANNEL 1
1886
      115
      123
           109 ELECTRIC CHANNEL 1
1887
1888
           110 ELECTRIC CHANNEL 2
           110 ELECTRIC CHANNEL 2
1889
       11
1890
       19
           110 ELECTRIC CHANNEL
       27
           110 ELECTRIC
                        CHANNEL
991
 192
           110 ELECTRIC CHANNEL
1893
           110 ELECTRIC CHANNEL
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1894
       51
            110 ELECTRIC CHANNEL
1875
       59
            110 ELECTRIC CHANNEL
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1896
       67
            110 ELECTRIC CHANNEL
                                   2
       75
1897
            110 ELECTRIC CHANNEL
1898
       83
            110 ELECTRIC CHANNEL
1899
       91
            110 ELECTRIC CHANNEL
                                   2
1900
       99
            110 ELECTRIC CHANNEL
                                   2
1901
      107
            110 ELECTRIC CHANNEL
                                   2
      115
1902
            110 ELECTRIC CHANNEL 2
1903
      123
            110 ELECTRIC CHANNEL
1904
            111 ELECTRIC CHANNEL
                                   3
1905
       11
            111 ELECTRIC CHANNEL
1904
            111 ELECTRIC CHANNEL
       19
1907
       27
            111 ELECTRIC CHANNEL
1908
       35
            111 ELECTRIC CHANNEL
1909
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            111 ELECTRIC
                          CHANNEL
1910
       51
            111 ELECTRIC CHANNEL
1911
       59
            111 ELECTRIC CHANNEL
1912
       67
            111 ELECTRIC CHANNEL
                                   3
1913
       75
            111 ELECTRIC CHANNEL
                                   3
1914
       83
            111 ELECTRIC CHANNEL 3
1915
       91
            111 ELECTRIC CHANNEL
                                   3
       99
1916
            111 ELECTRIC CHANNEL
                                   3
1917
      107
            111 ELECTRIC CHANNEL 3
1918
      115
            111 ELECTRIC CHANNEL
1919
      123
            111 ELECTRIC CHANNEL
1920
        3
            112 ELECTRIC CHANNEL
1921
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            112 ELECTRIC CHANNEL
1922
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            112 ELECTRIC CHANNEL
1923
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1924
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            112 ELECTRIC CHANNEL
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            112 ELECTRIC CHANNEL
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            112 ELECTRIC CHANNEL
1928
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            112 ELECTRIC CHANNEL
       75
1929
            112 ELECTRIC CHANNEL
1930
            112 ELECTRIC CHANNEL
       83
1931
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            112 ELECTRIC CHANNEL
1932
       99
            112 ELECTRIC CHANNEL
1933
      107
            112 ELECTRIC CHANNEL
1934
      115
            112 ELECTRIC CHANNEL
1935
      123
            112 ELECTRIC CHANNEL
1936
        3
            113 MAGNETIC CHANNEL
1937
            113 MAGNETIC CHANNEL
       11
1938
       19
            113 MAGNETIC CHANNEL
            113 MAGNETIC CHANNEL
113 MAGNETIC CHANNEL
1939
       27
1940
       35
1941
       43
                MAGNETIC CHANNEL
            113
1942
       51
                MAGNETIC
                          CHANNEL
            113
1943
       59
            113
                MAGNETIC
                          CHANNEL
1944
       67
                MAGNETIC
                          CHANNEL
            113
                MAGNETIC
                          CHANNEL
1945
       75
            113
                MAGNETIC
                          CHANN
1946
       83
            113
                          CHANNEL
       91
                MAGNETIC
1947
            113
                HAGNETIC CHANNEL
MAGNETIC CHANNEL
1948
       99
            113
1749
      107
            113
```

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Section 1

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113 MAGNETIC CHANNEL
1950
      115
           113 MAGNETIC CHANNEL
1951
      123
1952
        3
           114 MAGNETIC CHANNEL
1953
           114 MAGNETIC CHANNEL
       11
1954
       19
           114 MAGNETIC CHANNEL
       27
           114 HAGNETIC CHANNEL
1955
1956
       35
           114 MAGNETIC CHANNEL 2
1957
       43
           114 MAGNETIC CHANNEL
           114 MAGNETIC CHANNEL
1958
       51
           114 MAGNETIC CHANNEL
1959
       59
                                  2
           114 MAGNETIC CHANNEL
       67
1960
           114 MAGNETIC CHANNEL
       75
1961
           114 MAGNETIC CHANNEL
1962
       83
           114 MAGNETIC CHANNEL
114 MAGNETIC CHANNEL
1963
       91
1964
       99
      107
1965
           114 MAGNETIC CHANNEL 2
      115
           114 MAGNETIC CHANNEL 2
1944
      123
           114 MAGNETIC CHANNEL 2
1967
           115 MAGNETIC CHANNEL 3
1968
        3
1969
           115 MAGNETIC CHANNEL
       11
           115 MAGNETIC CHANNEL
1970
       19
1971
       27
           115 MAGNETIC CHANNEL
      ; 35
           115 MAGNETIC CHANNEL
1972
1973
       43
           115 MAGNETIC CHANNEL
           115 MAGNETIC CHANNEL
1974
       51
1975
       59
           115 MAGNETIC CHANNEL
           115 MAGNETIC CHANNEL
1976
       67
       75
           115 MAGNETIC CHANNEL 3
1977
1978
           115 MAGNETIC CHANNEL 3
       83
       91
           115 MAGNETIC CHANNEL 3
1979
           115 MAGNETIC CHANNEL
1980
       99
1981
            115 MAGNETIC CHANNEL
      107
           115 MAGNETIC CHANNEL
      115
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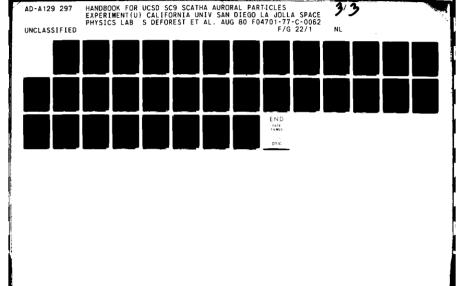
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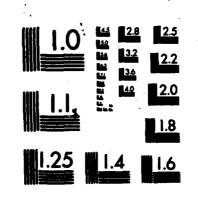
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08-18-78
LIST
P78-2 COMMAND

PAGE 7 STATE = (PULSE(P),LATCHING(L),UNLATCHING(U),MOMENTARY(M),SERIAL(S),NON-REDUNDANT RELAY(#))	TH VERIFICATION AND REFERENCE
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7	382	NSUL	101	REVERSAL	10.0	_	9	DEG	s	6000054	•	0000000	01011001	JE511
7,	383	NSUL	102,	REVERSAL	45	_	6	DEG	s	6000008	-	00000000	0001010000	C8511
7	384	NSUL	103.	REVERSAL	듾	^		อะต	s	000000	ñ	0000000	0001101000	J8511
7	385	NSOL	104	REVERSA	ANGLE	^	Ξ	DEG	S	600005	0	0000000	010110100	J8511
~	386	NSUL	105.	EVERS	ANGLE	_	ž.	DEG	ss ·	0000059	O	0000	00010110100	J6511
~	387	NSUL	136.	REVERSA	ANGLE	_	5	DEG	s ·	00	9	000000	00010110101	Jes11
~	386	NSU.	137,	REVERSA	ANGLE	<b>~</b> ∙	8	OEG	S)	8500000	_	90000	010110101	08311
~	369	NSUL.	10a	REVERS	ANGLE	^		DEG	S)	6000055	-	20000000	00010110110	11897
	390	NSUL	109,	VERSA	コロハイ	_	5	DEG	v	6000055	-	2000000	0001011011	11531
7	391	NSUL	10.	EVERSA	ANGL	_	3.	DEG	S	6000055	5	00000	10110111	16511
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7.	393	NSC	112,	æ	ANGL	^	8	DEG	S	6000056		0000000	00010111000	J8511
7	39.1	<b>NSC</b>	113,	REVERSA	ANGL	_	.67	SEG S	S	6000056	-	0000000	00010111000	Je511
7	395	NSOL	114.	EVERSA	ANGLE	_	6	DEG	S	6000056		00000	20010111000	18511
7.	396	NSOL	15.	EVERS	ANGLE	<u>~</u>	4	DEG	S	6000056	0	0000	00010111001	18511
ï.	397	NSUL	116,	EVERSA	ANGLE		.86	DEG	S	6000056	01011	0000000	00010111010	16511
7	399	NSUL	117,	EVERSA	ANGLE	_	2	DEG	S	£00000	01011		0001011101	
7	399	NSU.	118.	REVERS	ANGLE		30	DEG	S	£00000		9000000	0001011101	18311
Ž	007	NSOL	<u>.</u>	REVERSA			ö	DEG	s	0000026	01011	0000000	0001011101	J8511
	<b>4</b> 01	NSOL	120.	REVERSA	ANGL		4	DEG	s	6000057	-	0000000	0001011110	18511
Α-	402	NSUL	121.	REVERSA	ANSL	^	8	DEG	s	6000057	*	00000	011110	18511
	<b>£03</b>	NSUL	122,	REVERSA	ANGL	^	2	DEG	S	6000057	_	9000000	000101110	JB511
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7.	さしな	NSUL	124.	EVERSA	ANGL	_	2	PEG	s	6000057	-	0000000	00010111110	J8511
ż	306	NSUL	125,	REVERS		^	3	DEG	S	0057	01011	3000	9901011111	J6511
7.	407	NSUL	126,	REVERS		^	ŝ	DEG	S	6000057	_	0000000	00610111111	J8511
ż	428	NSUL	127,	REVERSA	ANGLE	_	7	DEG	Ŋ	6000057	-	0000000	00010111111	J8511
7	601	NSOL	128,	REVERSA	ANGLE	^	9	DEG	S	000000	01011	0000000	0	JB511
7	0 =	NSOL	129.	REVERS	ANGLE	_	8	DEG	S	6000003	_	9909060	000110000	18811
7.	11	NSC:	130,	EVERSA	ANGLE	_	7	DEG	S	090000		2000000	00001100001	18511
7	112	<b>Non</b>	131.	EVER		^	.79	DEG	s	000000	_	960,6009	100000	J8511
7	13	NSUL	132,	EVERSA		_	=	DEG	Ŋ	000000	•	000000	C001100001C	JB511
7	414	HOOF	133,	ERSA	5	~ ^	Ω̈́	513	S	0000	01011	0000000	100001	18511
2	15	NSOL	134	REVERSA	ANGL		8	25.0	s	20000	_	0000000	00011000011	10
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7	117	NSUL	136.	REVERS	5		.7	อะิด	S	6000061	-	2000000	00011000100	Ja511
ř.	<b>418</b>	NSU	137,	EVERSA	ANGLE	_	-	G G	S	0061	**	0000000	20011002100	CB311
7	W.	MSCL	138.	EVERSA	9	_	S	DEG	S	6000061	•	0000000	10001	
7	120	NSUL	139,	EVERS	80%	<del>-</del>	8	DEG	S	6000031	•	0000000	1 000101	Jö511
2	5	NSC.	140.	RSA	100	<del>-</del>	e,	DEG.	S	260000614		20000	1 0001 10	18511
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7420	NSO.	148	EVERS	ANGLE	187.5	2		00000	0	0000	0000	01010	78511			
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7435	MSUL	3	EVERS	ANGEL	195.8	2.2		00000	0	0000		001101	1851			
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7438	MSUL	157	EVERS	A SOLE	200.0	. H		00000	J	0000	0000	001110	1831			
7439	N CEL	3	EVERS	N. C.	201.4	1 3		50500	0	0000		001111	16511			
7440	NSUL	159	EVERS	ANGLE	202.6	2 2		000003	Ò	00000	0000	=	1631			
7441	N.SU.	160	EVERS	AMGLE	204.5	Ö		00000	01011	000000000	0000	0100000	JE311			
7442	NSOL	161	EVERS	ANGLE	235.6	OE		50000	01011	00000		ဗ္ဗ	1831			
7443	NSUL	162,	EVERS	Arigle	207.0	DE		DC0064	01011	0000		5	18511			
7444	NSUL	63	EVERS	ANGLE	208.4	2		000004	01011	000000000		5	11530			
7445	NSC:	154	EVER	ANGLE	239.8	OE		000004	11010	000000000		0010	JB511			
7446	NSOL	65	EVERS	ANGLE	211.2	2		00000	01311	000000000		0010	<b>JES11</b>			
7447	NSC.	166	EVERS	ANGLE	212.ê	끈		190		000000000	000011	_	JE511			
7448	NSUL	67	ELERS	ANGLE	214.3	90		000064	01011	000000000		100	J.8511			
7449	NSC.	168.	EVERS	ANDLE	215.4	30		000000	01011	0000000000		010	J2511			
7450	NSUL	169.	EVERS	ANGLE	210.8	5		000065	01011	000000000		10100	18511			
7451	NSUL	170	EVERS	ANGLE	218.2	OE		0000es	01011	•	200011	0101	J8511	•		
7452	MSUL	7	EVERS	ANGLE	219.6	96		v	01011	000000000	0	010101	18511			
7453	NSUL	12	EVERS	AHGLE	221.0	2		52	01011	00000		0101	J8511			
7454	NSOL	73	EVERS	ANGLE	222.4	90		00000	01011	20000		010110	14511			
7455	NSUL	174.	EVERS	ANGLE	223.7	ä		ŝ	01011	2000		010111	J6511			
7456	NSUL	75	EVERS	ANGLE	225.1	2		000005	01211	99000		010111	18511			
7457	NSUL	176,	EVERS	ANGLE	220.5	9		90000	01611	2000		011000	1851			
7458	NSCL	177.	EVERS	ANGLE	227.9	2		900000	01011	0000		011000	1881			
7459	NSCL	178.	EVERS	ANGLE	229.3	2		990000	01011	90000		011001	18511			,
7460	NSOL.	179.	EVERS	ANGLE	230.7	3		366	٠	00000	0000	011003	1887			
74.61	NSC	8	REVERS	ANGLE	232.1	DE		990000	01011	20000	0000	011010	1631			
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ENLL 196, NEVERSAL ANGLE < 216, 42 DEG S 260001355 01011 0302300000 00010 101010 10 15 15 15 15 15 15 15 15 15 15 15 15 15		167.	EVER	Z	<u>.</u>	02 DE	so ·		0101	00000000	000161010011			
EMIL 170, REVERSAL ANGLE < 216, 31 DEG S 260001352 01011 050200000 00010101010 JBS1 EMIL 170, REVERSAL ANGLE < 219, 60 EEG S 260001352 01011 050200000 00010101010 JBS1 EMIL 177, REVERSAL ANGLE < 223, 40 DEG S 260001359 01011 050200000 00010101010 JBS1 EMIL 177, REVERSAL ANGLE < 223, 40 DEG S 260001359 01011 0502000000 00010101010 JBS1 EMIL 177, REVERSAL ANGLE < 223, 40 DEG S 260001359 0101 05000000 00010101010 JBS1 EMIL 177, REVERSAL ANGLE < 226, 19 DEG S 260001359 0101 05000000 00010101010 JBS1 EMIL 177, REVERSAL ANGLE < 226, 19 DEG S 260001359 0101 0500000 00010101010 JBS1 EMIL 177, REVERSAL ANGLE < 226, 19 DEG S 260001359 0101 0500000 00010101010 JBS1 EMIL 177, REVERSAL ANGLE < 226, 19 DEG S 260001359 0101 0500000 00010101010 JBS1 EMIL 177, REVERSAL ANGLE < 229, 37 DEG S 260001359 0101 0500000 0001010101010 JBS1 EMIL 177, REVERSAL ANGLE < 229, 37 DEG S 260001359 0101 0500000 0001010101010 JBS1 EMIL 177, REVERSAL ANGLE < 226, 37 DEG S 260001359 0101 0500000 0001010101010 JBS1 EMIL 256, FORFERA ANGLE > -16.21 DEG S 260001359 0101 0500000 00011010101010 JBS1 EMIL 276, REVERSAL ANGLE > -16.21 DEG S 26000140 0101 0500000 0001101010101010 JBS1 EMIL 276, REVERSAL ANGLE > -16.21 DEG S 26000140 0101 0500000 0001101010101010101010101	ENL	3	EVER	3	š	42 DE	S)	•	0101	2000000000	0001010101	J. 33		
ENLL 177, REVERSAL ANGLE < 216.21 DEG S 260001353 01011 0023505200 00010 101011 USD 18ELL 177, REVERSAL ANGLE < 221.40 DEG S 260001354 01011 0023505200 00010 101011 USD 18ELL 177, REVERSAL ANGLE < 223.79 DEG S 260001355 01011 0023505200 00010 101011 USD 18ELL 177, REVERSAL ANGLE < 223.79 DEG S 260001356 01011 000200000 00010 101010 USD 18ELL 177, REVERSAL ANGLE < 223.79 DEG S 260001350 01011 0000000 00010 101010 USD 18ELL 177, REVERSAL ANGLE < 220.89 DEG S 260001360 01011 0000000 USD 18ELL 177, REVERSAL ANGLE < 220.37 DEG S 260001360 01011 0000000 USD 18ELL 177, REVERSAL ANGLE < 220.37 DEG S 260001360 01011 0000000 USD 18ELL 177, REVERSAL ANGLE < 220.37 DEG S 260001360 01011 0000000 USD 18ELL 177, REVERSAL ANGLE < 220.37 DEG S 260001360 01011 0000000 USD 18ELL 177, REVERSAL ANGLE < 220.37 DEG S 260001360 01011 0000000 USD 18ELL 178, REVERSAL ANGLE < 220.37 DEG S 260001360 01011 0000000 USD 18ELL 178, REVERSAL ANGLE > -17.60 DEG S 260001360 01011 0000000 USD 18ELL 178, REVERSAL ANGLE > -17.60 DEG S 260001360 01011 0000000 USD 18ELL 178, REVERSAL ANGLE > -10.20 DEG S 26000140 01011 0000000 USD 18ELL 178, REVERSAL ANGLE > -10.20 DEG S 26000140 01011 0000000 USD 18ELL 178, REVERSAL ANGLE > -10.20 DEG S 26000140 01011 0000000 USD 18ELL 178, REVERSAL ANGLE > -10.20 DEG S 26000140 01011 0000000 USD 18ELL 178, REVERSAL ANGLE > -10.20 DEG S 26000140 01011 0000000 USD 18ELL 178, REVERSAL ANGLE > -10.20 DEG S 26000140 01011 0000000 USD 18ELL 178, REVERSAL ANGLE > -10.20 DEG S 26000140 01011 0000000 USD 18ELL 178, REVERSAL ANGLE > -10.20 DEG S 26000140 01011 0000000 USD 18ELL 178, REVERSAL ANGLE > -10.20 DEG S 26000140 01011 0000000 USD 18ELL 178, REVERSAL ANGLE > -10.20 DEG S 26000140 01011 0000000 USD 18ELL 178, REVERSAL ANGLE > -2.20 DEG S 26000140 01011 0000000 USD 18ELL 178, REVERSAL ANGLE > -2.20 DEG S 26000140 01011 00000000 USD 18ELL 178, REVERSAL ANGLE > -2.20 DEG S 26000140 01011 00000000 USD 18ELL 178, REVERSAL ANGLE > -2.20 DEG S 26000140 01011 00000000 USD 18ELL 178, REVERSAL ANGLE > -2.20 DEG S 26000140 01011	ENLL	69	<u> </u>	Z Z	ė	31 06	vs (		0.0	3	0001313101	1831		
ENIL 173. REVERSAL ANGLE < 219.50 EGG S 26000153 010 02026000 00010 1010 1015 15 ENIL 174. REVERSAL ANGLE < 222.40 EGG S 26000155 010 0000000000 00010 1010 1015 15 ENIL 177. REVERSAL ANGLE < 222.90 EGG S 26000155 010 1000000000 00010 1010 1010 1		170,		ANG	216	21 DE	ın ı	•	0101	000	0001010101	5		
ENIL 173. REVERSAL ANGLE < 221.00 DEG S 260001556 0101 00200000 00010101010 U553 ENIL 173. REVERSAL ANGLE < 222.79 DEG S 260001556 0101 00200000 00010101010 U553 ENIL 174. REVERSAL ANGLE < 222.99 DEG S 260001556 0101 000000000 00010101010 U553 ENIL 177. REVERSAL ANGLE < 222.99 DEG S 260001556 0101 000000000 00010101010 U553 ENIL 177. REVERSAL ANGLE < 222.99 DEG S 26000156 0101 00000000 00010101010 U553 ENIL 177. REVERSAL ANGLE < 227.99 DEG S 260001583 0101 00000000 00010101010 U553 ENIL 177. REVERSAL ANGLE < 227.99 DEG S 260001583 0101 00000000 U553 ENIL 179. REVERSAL ANGLE < 227.90 DEG S 260001583 0101 00000000 U553 ENIL 179. REVERSAL ANGLE < 227.90 DEG S 260001593 0101 00000000 U553 ENIL 179. REVERSAL ANGLE < 227.90 DEG S 260001593 0101 00000000 U553 ENIL 179. REVERSAL ANGLE < 227.90 DEG S 260001503 0101 0000000 U553 ENIL 179. REVERSAL ANGLE < 17.60 DEG S 260001503 0101 0000000 U553 ENIL 179. REVERSAL ANGLE < 17.60 DEG S 260001503 0101 00000000 U553 ENIL 179. REVERSAL ANGLE S 179. DEG S 260001503 U101 0000000 U553 ENIL 179. REVERSAL ANGLE S 179. DEG S 260001503 U101 0000000 U553 ENIL 179. REVERSAL ANGLE S 179. DEG S 26000150 U101 U553 ENIL 179. REVERSAL ANGLE S 179. DEG S 26000150 U101 U553 ENIL 179. REVERSAL ANGLE S 179. DEG S 26000150 U101 U553 ENIL 179. REVERSAL ANGLE S 179. DEG S 26000150 U101 U553 ENIL 179. REVERSAL ANGLE S 179. DEG S 26000150 U101 U553 ENIL 179. REVERSAL ANGLE S 179. DEG S 26000150 U101 U553 ENIL 179. REVERSAL ANGLE S 179. DEG S 26000150 U101 U553 ENIL 179. REVERSAL ANGLE S 179. DEG S 26000150 U101 U553 ENIL 179. REVERSAL ANGLE S 179. DEG S 26000150 U101 U553 ENIL 179. REVERSAL ANGLE S 179. DEG S 26000150 U101 U553 ENIL 179. REVERSAL ANGLE S 179. DEG S 26000150 U101 U553 ENIL 179. REVERSAL ANGLE S 179. DEG S 26000150 U101 U553 ENIL 179. DEG S 26000150 U101 U553 ENIL 179. REVERSAL ANGLE S 179. DEG S 26000150 U101 U553 ENIL 179. REVERSAL ANGLE S 179. DEG S 26000150 U101 U553 ENIL 179. REVERSAL ANGLE S 179. DEG S 26000150 U101 U553 ENIL 179. DEG S 26000150 U101 U553 ENIL 179. REVERSAL ANGL		٠	REVERSAL	::	219	50 CE	<b>'</b>	•	9101	9	000101010101	0		
ENLL 174. REVERSAL ANGLE < 222.40 DEG S 260001556 01011 0000000000 00010101010 1553 ENLL 174. REVERSAL ANGLE < 222.99 DEG S 260001557 01011 0000000000 00010101010 1053 ENLL 177. REVERSAL ANGLE < 222.99 DEG S 260001557 01011 0000000000 00010101010 1053 ENLL 177. REVERSAL ANGLE < 222.99 DEG S 260001562 01011 000000000 00010101010 1053 ENLL 177. REVERSAL ANGLE < 222.97 DEG S 260001562 01011 000000000 00010101010 1053 ENLL 179. REVERSAL ANGLE < 232.97 DEG S 260001562 01011 000000000 00010101010 1053 ENLL 179. REVERSAL ANGLE < 232.97 DEG S 260001564 0101 000000000 00010101010 1053 ENLL 179. REVERSAL ANGLE > -16.21 DEG S 260001504 01011 00000000 000110101010 1053 ENLL 1. REVERSAL ANGLE > -16.21 DEG S 260001601 01011 00000000 000110101010 1053 ENLL 2. REVERSAL ANGLE > -16.21 DEG S 260001601 01011 00000000 000110100000 1053 ENLL 2. REVERSAL ANGLE > -16.21 DEG S 260001601 01011 00000000 000110000000 1053 ENLL 2. REVERSAL ANGLE > -16.21 DEG S 260001601 01011 00000000 000110000000 1053 ENLL 2. REVERSAL ANGLE > -16.21 DEG S 260001601 01011 00000000 000110000000 1053 ENLL 2. REVERSAL ANGLE > -16.21 DEG S 260001601 01011 00000000 000110000000 1053 ENLL 2. REVERSAL ANGLE > -16.21 DEG S 260001601 01011 00000000 000110 000000000		٠	REVERSAL	=	221.	30 CE	S		200	3	00010101011	J851		
ENLI 175, REVERSAL ANGLE < 225.19 DEG S 260001256 071011 000000000 00010101011 JUSTS REVERSAL ANGLE < 225.19 DEG S 260001256 071011 000000000 00010101010 JUSTS REVERSAL ANGLE < 227.98 DEG S 260001257 07101 000000000 00010110101 JUSTS REVERSAL ANGLE < 227.98 DEG S 260001260 07101 000000000 JUSTS REVERSAL ANGLE < 229.37 DEG S 260001262 07101 000000000 000101011011 JUSTS REVERSAL ANGLE < 229.37 DEG S 260001262 07101 000000000 000101011011 JUSTS REVERSAL ANGLE < 220.77 DEG S 260001270 07101 00000000 JUSTS REVERSAL ANGLE < 220.77 DEG S 260001370 07101 00000000 JUSTS REVERSAL ANGLE > -17.60 DEG S 260001370 07101 00000000 JUSTS REVERSAL ANGLE > -17.60 DEG S 260001370 07101 00000000 JUSTS REVERSAL ANGLE > -12.00 DEG S 260001370 07101 00000000 JUSTS REVERSAL ANGLE > -13.481 DEG S 260001402 07101 000000000 000110000000 JUSTS REVERSAL ANGLE > -13.481 DEG S 260001407 07101 000000000 0001100000000 JUSTS REVERSAL ANGLE > -13.481 DEG S 260001407 07101 000000000 0001100000000 JUSTS REVERSAL ANGLE > -13.49 DEG S 260001407 07101 000000000 0001100000000 JUSTS REVERSAL ANGLE > -13.40 DEG S 260001407 07101 00000000 0001100000000 JUSTS REVERSAL ANGLE > -13.40 DEG S 260001407 07101 000000000 0001100000000 JUSTS REVERSAL ANGLE > -2.50 DEG S 260001407 07101 000000000 0001100000000 JUSTS REVERSAL ANGLE > -2.50 DEG S 260001407 07101 000000000 0001100000000 JUSTS REVERSAL ANGLE > -2.50 DEG S 260001407 07101 000000000 0001100000000 JUSTS REVERSAL ANGLE > -2.50 DEG S 260001407 07101 000000000 0001100000000 JUSTS REVERSAL ANGLE > -2.50 DEG S 260001407 07101 000000000 JUSTS REVERSAL ANGLE > -3.20 DEG S 260001407 07101 000000000 JUSTS REVERSAL ANGLE > -3.20 DEG S 260001400 JUSTS REVERSAL ANGLE > -3.20 DEG S 260001407 07101 000000000 JUSTS REVERSAL ANGLE > -3.20 DEG S 260001407 07101 00000000 JUSTS REVERSAL ANGLE > -3.20 DEG S 260001400 JUSTS REVERSAL ANGLE > -3.20 DE		•	REVERSAL	おいつとせ	222.	30 OI	S	101	9101	3	0 000101010111	JE51		
ENLI 175. REVERSAL ANGLE < 225.19 DEG S 260001260 01011 000000000 000101010101 1951 ENLI 175. REVERSAL ANGLE < 225.19 DEG S 260001260 01011 000000000 000101010101 1951 ENLI 175. REVERSAL ANGLE < 229.37 DEG S 260001260 01011 000000000 000101010101 1951 ENLI 179. REVERSAL ANGLE < 229.37 DEG S 260001263 01011 000000000 000101010101 1951 ENLI 179. REVERSAL ANGLE < 230.77 DEG S 260001263 01011 000000000 00011010101 1951 ENLI 179. REVERSAL ANGLE < 230.77 DEG S 260001263 01011 000000000 00011010101 1951 ENLI 139. REVERSAL ANGLE > -17.60 DEG S 260001401 01010 00000000 00011010101 1951 ENLI 23. REVERSAL ANGLE > -17.60 DEG S 260001401 01010 00000000 00011010101 1951 ENLI 3. REVERSAL ANGLE > -17.60 DEG S 260001401 01010 00000000 00011010101 1951 ENLI 3. REVERSAL ANGLE > -17.60 DEG S 260001401 01010 00000000 00011010101 1951 ENLI 3. REVERSAL ANGLE > -17.60 DEG S 260001401 01010 00000000 000110000000 000110101 1951 ENLI 3. REVERSAL ANGLE > -10.63 DEG S 260001401 01010 00000000 0001100000000 00011000000		•	REVERSAL	ANGLE	223.	30 E	S)		C101	2	000101010111	_		
ENLL 176, REVERSAL ANGLE < 226, 38 DEG S 26000126 01010 00000000 00010 0110100 JBS1 ENLL 1776, REVERSAL ANGLE < 229, 37 DEG S 26000126 01011 000000000 00010 0110100 JBS1 ENLL 1776, REVERSAL ANGLE < 229, 37 DEG S 26000126 01011 000000000 00010 0110100 JBS1 ENLL 180, REVERSAL ANGLE < 232.16 DEG S 26000126 01011 000000000 00010 0110100 JBS1 ENLL 180, REVERSAL ANGLE < 232.16 DEG S 26000130 01011 000000000 00011 010100 JBS1 ENLL 180, REVERSAL ANGLE > -17.60 DEG S 26000130 01011 000000000 00011 010100 JBS1 ENLL 1 REVERSAL ANGLE > -17.60 DEG S 26000130 01011 000000000 00011 01011 00000000	EVL	5	REVERSAL	ANGLE	228	30 61	y (	•	0101	00000000	000101010111	_		
ENIL 177, MEVERSAL MAGIE < 227.38 DEG S 260001263 01011 00000000 01010101 USDS ENIL 177, MEVERSAL MAGIE < 220.37 DEG S 260001263 01011 00000000 01010101 USDS ENIL 177, MEVERSAL MAGIE < 230.77 DEG S 260001263 01011 00000000 0101010101 USDS ENIL 1 0 FORCED REVERSAL ANGIE < 230.77 DEG S 260001263 01011 00000000 010101011010 USDS ENIL 1 0 FORCED REVERSAL ANGIE > -16.21 DEG S 26000140 10101000000 0101010111111 USDS ENIL 2, MEVERSAL ANGIE > -16.21 DEG S 26000140 10101000000 0101010111111 USDS ENIL 1, MEVERSAL ANGIE > -16.21 DEG S 26000140 101010000000 0101010111111 USDS ENIL 2, MEVERSAL ANGIE > -16.21 DEG S 26000140 101010000000 0101101011 USDS ENIL 3, MEVERSAL ANGIE > -16.21 DEG S 26000140 10101 00000000 01011010101 USDS ENIL 4, MEVERSAL ANGIE > -10.20 DEG S 26000140 10101 000000000 01011010101 USDS ENIL 6, MEVERSAL ANGIE > -10.20 DEG S 26000140 10101 000000000 01011010101 USDS ENIL 6, MEVERSAL ANGIE > -10.20 DEG S 26000140 10101 000000000 01011010101 USDS ENIL 6, MEVERSAL ANGIE > -10.20 DEG S 26000140 01011 000000000 010110000011 USDS ENIL 6, MEVERSAL ANGIE > -10.20 DEG S 26000141 01011 000000000 000110000011 USDS ENIL 6, MEVERSAL ANGIE > -10.20 DEG S 26000141 01011 000000000 00011000011 USDS ENIL 6, MEVERSAL ANGIE > -10.20 DEG S 26000141 01011 000000000 000110000110 USDS ENIL 1, MEVERSAL ANGIE > -10.20 DEG S 26000141 01011 000000000 000110000110 USDS ENIL 1, MEVERSAL ANGIE > -10.20 DEG S 26000141 01011 000000000 000110000101 USDS ENIL 1, MEVERSAL ANGIE > -10.20 DEG S 26000141 01011 000000000 000110001010 USDS ENIL 1, MEVERSAL ANGIE > -10.20 DEG S 26000142 01011 000000000 000110001010 USDS ENIL 1, MEVERSAL ANGIE > -10.20 DEG S 26000142 01011 000000000 000110001010 USDS ENIL 1, MEVERSAL ANGIE > -10.20 DEG S 26000142 01011 000000000 000110001010 USDS ENIL 1, MEVERSAL ANGIE > -10.20 DEG S 26000142 01011 000000000 000110001010 USDS ENIL 1, MEVERSAL ANGIE > -10.20 DEG S 26000142 01011 000000000 000110001010 USDS ENIL 2, MEVERSAL ANGIE > -10.20 DEG S 26000142 01011 000000000 000110001010 USDS ENIL 2, MEVERSAL ANGIE > -10		9	REVERSAL	ANGLE	× 226.	28 DE	S C		5	00000000	000101011	1851		
ENLI 179, NEVERSAL ANGLE < 229.37 DEG S 260001264 01011 060200000 000101011010 ubsilent 179, NEVERSAL ANGLE < 222.15 DEG S 260001264 01011 060200000 000101011010 ubsilent 179, NEVERSAL ANGLE < 222.15 DEG S 260001264 01011 060200000 000101011010 ubsilent 180, NEVERSAL ANGLE > -16.21 DEG S 26000140 101011 000200000 00011010101 ubsilent 1. NEVERSAL ANGLE > -16.21 DEG S 26000140 101011 000200000 00011010101 ubsilent 1. NEVERSAL ANGLE > -16.21 DEG S 26000140 10101 000200000 000110100000 ubsilent 1. NEVERSAL ANGLE > -14.81 DEG S 26000140 10101 000200000 000110000001 ubsilent 1. NEVERSAL ANGLE > -12.02 DEG S 26000140 10101 000200000 000110000010 ubsilent 1. NEVERSAL ANGLE > -12.02 DEG S 26000140 10101 000200000 000110000010 ubsilent 1. NEVERSAL ANGLE > -12.02 DEG S 26000140 10101 000200000 000110000010 ubsilent 1. NEVERSAL ANGLE > -12.02 DEG S 26000140 10101 000200000 000110000010 ubsilent 1. NEVERSAL ANGLE > -12.02 DEG S 26000140 10101 000200000 000110000010 ubsilent 1. NEVERSAL ANGLE > -12.02 DEG S 26000141 01011 000200000 000110000101 ubsilent 1. NEVERSAL ANGLE > -12.02 DEG S 26000141 01011 000200000 000110000101 ubsilent 1. NEVERSAL ANGLE > -12.02 DEG S 26000141 01011 000200000 000110000101 ubsilent 1. NEVERSAL ANGLE > -12.02 DEG S 26000141 01011 000200000 000110000101 ubsilent 1. NEVERSAL ANGLE > -12.02 DEG S 26000141 01011 000200000 000110000101 ubsilent 1. NEVERSAL ANGLE > -12.02 DEG S 26000141 01011 000200000 000110001010 ubsilent 1. NEVERSAL ANGLE > -12.02 DEG S 26000141 01011 000200000 000110001010 ubsilent 1. NEVERSAL ANGLE > -12.02 DEG S 26000141 01011 000200000 000110001010 ubsilent 1. NEVERSAL ANGLE > -12.02 DEG S 26000141 01011 000200000 000110001010 ubsilent 1. NEVERSAL ANGLE > -12.02 DEG S 26000142 01011 000200000 000110001010 ubsilent 1. NEVERSAL ANGLE > -12.02 DEG S 26000142 01011 000200000 000110001010 ubsilent 1. NEVERSAL ANGLE > -12.02 DEG S 26000142 01011 000200000 000110001010 ubsilent 1. NEVERSAL ANGLE > -12.02 DEG S 26000142 01011 000200000 000110001001 ubsilent 1. NEVERSAL ANGLE > -12.02 DEG			REVERSAL	ANGLE	< 227.	30 86	vo (		5	00000000	000101011	1087		
ENLI, 190, REVERSAL ANGLE < 230.77 DEG 5 260001264 01011 00000000 0001010101010 JBS1 ENLI, 190, REVERSAL ANGLE < 230.77 DEG 5 260001264 01011 00000000 0001010101101 JBS1 ENLI, 255, FORCED REVERSAL ANGLE > -17.60 DEG 5 26000140 1011 000000000 000110101011 JBS1 ENLI, 255, FORCED REVERSAL ANGLE > -17.60 DEG 5 26000140 1011 000000000 000110000001 JBS1 ENUL 2, REVERSAL ANGLE > -13.42 DEG 5 26000140 1011 000000000 000110000001 JBS1 ENUL 3, REVERSAL ANGLE > -13.42 DEG 5 26000140 1011 000000000 000110000001 JBS1 ENUL 3, REVERSAL ANGLE > -13.42 DEG 5 26000140 1011 000000000 000110000001 JBS1 ENUL 5, REVERSAL ANGLE > -12.42 DEG 5 26000140 1011 000000000 000110000010 JBS1 ENUL 5, REVERSAL ANGLE > -12.42 DEG 5 26000140 1011 000000000 000110000010 JBS1 ENUL 5, REVERSAL ANGLE > -15.44 DEG 5 26000141 0011 000000000 000110000011 JBS1 ENUL 5, REVERSAL ANGLE > -5.44 DEG 5 26000141 0011 00000000 000110000011 JBS1 ENUL 6, REVERSAL ANGLE > -5.44 DEG 5 26000141 0011 00000000 000110000011 JBS1 ENUL 1, REVERSAL ANGLE > -0.36 DEG 5 26000141 0011 00000000 000110000110 JBS1 ENUL 1, REVERSAL ANGLE > -0.36 DEG 5 26000141 0011 00000000 000110000110 JBS1 ENUL 13, REVERSAL ANGLE > -0.36 DEG 5 26000141 0011 00000000 000110000110 JBS1 ENUL 13, REVERSAL ANGLE > -0.36 DEG 5 26000141 0011 000000000 000110000110 JBS1 ENUL 13, REVERSAL ANGLE > -0.36 DEG 5 26000141 0011 000000000 000110000110 JBS1 ENUL 13, REVERSAL ANGLE > 1.93 DEG 5 26000141 0011 000000000 000110000110 JBS1 ENUL 13, REVERSAL ANGLE > 1.93 DEG 5 26000142 01011 000000000 000110000110 JBS1 ENUL 13, REVERSAL ANGLE > 1.93 DEG 5 26000142 01011 000000000 000110001110 JBS1 ENUL 13, REVERSAL ANGLE > 1.93 DEG 5 26000142 01011 000000000 000110001110 JBS1 ENUL 20, REVERSAL ANGLE > 1.90 DEG 5 26000142 01011 000000000 000110001110 JBS1 ENUL 20, REVERSAL ANGLE > 1.90 DEG 5 26000142 01011 000000000000000000000000000		•	REVERSAL	ANGLE	. 622 v	22	<b>,</b> ,	<b>^</b> •	5 6			ī :		
ENUL 2: FORCED REVERSAL ANGLE > -16.21 DEG			TENENSAL IN	11024		7	n 4	O 14	3 6					
ENUL 1. REVERSAL ANGLE > -17.60 DEG S 26001437 01011 00000000 00011010101 0455 ENUL 1. REVERSAL ANGLE > -17.60 DEG S 26001401 0101 00000000 00011010000001 0455 ENUL 1. REVERSAL ANGLE > -14.81 DEG S 26001402 01011 00000000 000110000001 0455 ENUL 3. REVERSAL ANGLE > -12.42 DEG S 26001405 01011 00000000 000110000010 0455 ENUL 4. REVERSAL ANGLE > -12.42 DEG S 26001405 01011 00000000 000110000010 0455 ENUL 4. REVERSAL ANGLE > -12.42 DEG S 26001405 01011 00000000 000110000010 0455 ENUL 7. REVERSAL ANGLE > -12.42 DEG S 26001410 01011 00000000 000110000011 0455 ENUL 7. REVERSAL ANGLE > -12.42 DEG S 26001410 01011 00000000 000110000011 0455 ENUL 1. REVERSAL ANGLE > -2.26 DEG S 26001412 01011 00000000 000110000101 0455 ENUL 1. REVERSAL ANGLE > -2.26 DEG S 26001412 01011 00000000 000110000101 0455 ENUL 1. REVERSAL ANGLE > -2.26 DEG S 26001412 01011 00000000 000110000101 0455 ENUL 1. REVERSAL ANGLE > -2.26 DEG S 26001412 01011 00000000 000110000101 0455 ENUL 1. REVERSAL ANGLE > -0.36 DEG S 26001412 01011 00000000 000110000101 0455 ENUL 1. REVERSAL ANGLE > -0.36 DEG S 26001412 01011 00000000 000110000101 0455 ENUL 1. REVERSAL ANGLE > -0.36 DEG S 26001412 01011 00000000 000110000111 0455 ENUL 1. REVERSAL ANGLE > -0.36 DEG S 26001412 01011 00000000 000110000111 0455 ENUL 1. REVERSAL ANGLE > -0.36 DEG S 26001412 01011 00000000 000110001011 0455 ENUL 1. REVERSAL ANGLE > -0.36 DEG S 26001420 01011 00000000 000110001011 0455 ENUL 1. REVERSAL ANGLE > -0.36 DEG S 26001420 01011 000000000 000110001011 0455 ENUL 1. REVERSAL ANGLE > 1.93 DEG S 26001420 01011 000000000000000000000000000	 	}	METERSAL Mores on a		. 434.			2 9				, ,		
ENUL 2, REVERSAL ANGLE > -17.60 DEG S 26001401 01011 00000000 000110000001 JBSI ENUL 3, REVERSAL ANGLE > -16.21 DEG S 26001402 01011 00000000 000110000001 JBSI ENUL 3, REVERSAL ANGLE > -13.42 DEG S 26001402 01011 000000000 0001100000101 JBSI ENUL 3, REVERSAL ANGLE > -10.63 DEG S 26001405 01011 000000000 0001100000101 JBSI ENUL 3, REVERSAL ANGLE > -9.23 DEG S 26001410 01011 000000000 0001100000101 JBSI ENUL 10, REVERSAL ANGLE > -9.23 DEG S 26001410 01011 000000000 0001100000101 JBSI ENUL 11, REVERSAL ANGLE > -0.23 DEG S 26001410 01011 000000000 000110000101 JBSI ENUL 12, REVERSAL ANGLE > -0.23 DEG S 26001410 01011 000000000 000110000101 JBSI ENUL 13, REVERSAL ANGLE > -0.23 DEG S 26001410 01011 000000000 000110000101 JBSI ENUL 14, REVERSAL ANGLE > -0.23 DEG S 26001410 01011 000000000 000110000101 JBSI ENUL 15, REVERSAL ANGLE > -0.23 DEG S 26001410 01011 000000000 000110000101 JBSI ENUL 13, REVERSAL ANGLE > -0.23 DEG S 26001410 01011 000000000 000110000101 JBSI ENUL 13, REVERSAL ANGLE > -0.23 DEG S 26001410 01011 000000000 000110000101 JBSI ENUL 13, REVERSAL ANGLE > -0.23 DEG S 26001410 01011 000000000 000110000101 JBSI ENUL 13, REVERSAL ANGLE > -0.23 DEG S 26001410 01011 000000000 000110000101 JBSI ENUL 13, REVERSAL ANGLE > -0.23 DEG S 26001410 01011 00000000 000110000101 JBSI ENUL 13, REVERSAL ANGLE > 7.51 DEG S 26001412 01011 000000000 0001100010101 JBSI ENUL 13, REVERSAL ANGLE > 7.51 DEG S 26001420 01011 000000000 0001100010101 JBSI ENUL 24, REVERSAL ANGLE > 7.51 DEG S 26001420 01011 000000000 0001100010101 JBSI ENUL 25, REVERSAL ANGLE > 7.51 DEG S 26001420 01011 000000000 000110001001 JBSI ENUL 26, REVERSAL ANGLE > 7.51 DEG S 26001420 01011 000000000000000000000000000	1 - 2		, E	100	AMGLE			2 5	5 6		000000000000000000000000000000000000000			
EWUL 2, REVERSAL ANGLE > -14.21 DEG S 260001432 01011 050000000 000110000001 USDS EWUL 2, REVERSAL ANGLE > -14.481 DEG S 260001403 01011 050000000 000110000001 USDS EWUL 3, REVERSAL ANGLE > -12.02 DEG S 260001405 01011 050000000 0001100000101 USDS EWUL 5, REVERSAL ANGLE > -12.02 DEG S 260001405 01011 050000000 0001100000101 USDS EWUL 5, REVERSAL ANGLE > -12.02 DEG S 260001410 01011 050000000 0001100000101 USDS EWUL 17, REVERSAL ANGLE > -5.23 DEG S 260001410 01011 000000000 0001100000101 USDS EWUL 19, REVERSAL ANGLE > -5.05 DEG S 260001410 01011 000000000 0001100001010 USDS EWUL 19, REVERSAL ANGLE > -5.05 DEG S 260001412 01011 000000000 0001100001010 USDS EWUL 19, REVERSAL ANGLE > -0.36 DEG S 260001413 01011 000000000 0001100001010 USDS EWUL 19, REVERSAL ANGLE > -0.36 DEG S 260001414 01011 000000000 0001100001010 USDS EWUL 19, REVERSAL ANGLE > -0.36 DEG S 260001414 01011 000000000 0001100001010 USDS EWUL 19, REVERSAL ANGLE > -0.36 DEG S 260001414 01011 000000000 0001100001010 USDS EWUL 19, REVERSAL ANGLE > -0.36 DEG S 260001414 01011 000000000 0001100001010 USDS EWUL 19, REVERSAL ANGLE > -0.36 DEG S 260001414 01011 000000000 000110001010 USDS EWUL 19, REVERSAL ANGLE > 1.93 DEG S 260001412 01011 000000000 000110001010 USDS EWUL 19, REVERSAL ANGLE > 1.93 DEG S 260001420 01011 000000000 0001100010101 USDS EWUL 19, REVERSAL ANGLE > 1.93 DEG S 260001420 01011 000000000 0001100010101 USDS EWUL 19, REVERSAL ANGLE > 1.93 DEG S 260001420 01011 000000000 0001100010101 USDS EWUL 19, REVERSAL ANGLE > 1.00 DEG S 260001420 01011 0000000000 0001100010101 USDS EWUL 29, REVERSAL ANGLE > 10.30 DEG S 260001420 01011 00000000000000000000000000		7	? :	, . , .	10 E 4 1	۲.		٠.			00000010000	ij		
EWUL 4. REVERSAL ANGLE > -14.81 DEG S 26001403 DI011 00000000 000110000001 USS EWUL 4. REVERSAL ANGLE > -13.42 DEG S 26001405 DI011 00000000 0001100000110 USS EWUL 4. REVERSAL ANGLE > -10.63 DEG S 26001405 DI011 00000000 0001100000110 USS EWUL 6. REVERSAL ANGLE > -10.63 DEG S 26001405 DI011 00000000 0001100000110 USS EWUL 7. REVERSAL ANGLE > -10.63 DEG S 26001401 DI011 00000000 00011000001110 USS EWUL 8. REVERSAL ANGLE > -6.44 DEG S 26001401 DI011 00000000 0001100001010 USS EWUL 10. REVERSAL ANGLE > -6.44 DEG S 26000141 DI011 00000000 0001100001010 USS EWUL 13. REVERSAL ANGLE > -5.55 DEG S 26000141 DI011 00000000 0001100001010 USS EWUL 13. REVERSAL ANGLE > -3.26 DEG S 26000141 DI011 00000000 0001100001010 USS EWUL 13. REVERSAL ANGLE > -3.26 DEG S 26000141 DI011 00000000 0001100001010 USS EWUL 13. REVERSAL ANGLE > -3.26 DEG S 26000141 DI011 00000000 0001100001010 USS EWUL 13. REVERSAL ANGLE > -3.26 DEG S 26000141 DI011 00000000 0001100001010 USS EWUL 13. REVERSAL ANGLE > -3.26 DEG S 26000141 DI011 00000000 0001100001010 USS EWUL 14. REVERSAL ANGLE > -3.30 DEG S 26000141 DI011 00000000 0001100001010 USS EWUL 15. REVERSAL ANGLE > 1.93 DEG S 26000142 DI011 00000000 0001100001010 USS EWUL 15. REVERSAL ANGLE > 1.93 DEG S 26000142 DI011 00000000 0001100001010 USS EWUL 15. REVERSAL ANGLE > 1.93 DEG S 26000142 DI011 00000000 0001100001010 USS EWUL 15. REVERSAL ANGLE > 10.30 DEG S 26000142 DI011 00000000 0001100010010 USS EWUL 15. REVERSAL ANGLE > 10.30 DEG S 26000142 DI011 00000000 0001100010010 USS EWUL 24. REVERSAL ANGLE > 10.30 DEG S 26000142 DI011 000000000 0001100010010 USS EWUL 25. REVERSAL ANGLE > 10.30 DEG S 26000143 DI011 000000000 000110010010 USS EWUL 25. REVERSAL ANGLE > 10.30 DEG S 26000143 DI011 000000000000000000000000000000000			<u> </u>	. ^		, ,		2		000000000	90011000001	ć		
ENUL 4, REVERSAL ANGLE > -13.42 DEG			! =	. ^	4			9	010	200000000	00011000001	ï		
ENUL 8: REVERSAL ANGLE > -12.02 DEG 5 260001405 01011 00300000 0001100003010 JB51 ENUL 8: REVERSAL ANGLE > -9.23 DEG 5 260001410 01011 00300000 00011000001010 JB51 ENUL 8: REVERSAL ANGLE > -9.23 DEG 5 260001410 01011 003000000 00011000001010 JB51 ENUL 8: REVERSAL ANGLE > -7.84 DEG 5 260001410 01011 003000000 0001100001010 JB51 ENUL 1: REVERSAL ANGLE > -5.45 DEG 5 260001412 01011 003000000 0001100001010 JB51 ENUL 1: REVERSAL ANGLE > -2.26 DEG 5 260001413 01011 003000000 0001100001010 JB51 ENUL 1: REVERSAL ANGLE > -2.26 DEG 5 260001413 01011 00300000 0001100001010 JB51 ENUL 1: REVERSAL ANGLE > -2.26 DEG 5 260001415 01011 00300000 0001100001010 JB51 ENUL 1: REVERSAL ANGLE > -2.26 DEG 5 260001415 01011 00300000 0001100001010 JB51 ENUL 1: REVERSAL ANGLE > -2.26 DEG 5 260001415 01011 00300000 0001100001010 JB51 ENUL 1: REVERSAL ANGLE > -2.26 DEG 5 260001415 01011 00300000 0001100001101 JB51 ENUL 1: REVERSAL ANGLE > -2.26 DEG 5 260001415 01011 00300000 0001100001101 JB51 ENUL 1: REVERSAL ANGLE > -2.26 DEG 5 26000142 01011 00300000 0001100001101 JB51 ENUL 1: REVERSAL ANGLE > -2.26 DEG 5 26000142 01011 00300000 000110001001 JB51 ENUL 1: REVERSAL ANGLE > -2.26 DEG 5 26000142 01011 00300000 0001100010101 JB51 ENUL 1: REVERSAL ANGLE > -2.26 DEG 5 26000142 01011 00300000 0001100010101 JB51 ENUL 2: REVERSAL ANGLE > -2.26 DEG 5 26000142 01011 00300000 0001100010101 JB51 ENUL 2: REVERSAL ANGLE > -2.26 DEG 5 26000142 01011 00300000 0001100010101 JB51 ENUL 2: REVERSAL ANGLE > -2.26 DEG 5 26000142 01011 00300000 0001100011001 JB51 ENUL 2: REVERSAL ANGLE > -2.26 DEG 5 26000143 01011 0300000 0001100011001 JB51 ENUL 2: REVERSAL ANGLE > -2.26 DEG 5 26000143 01011 03000000 0001100011001 JB51 ENUL 2: REVERSAL ANGLE > -2.26 DEG 5 26000143 01011 03000000 00011001 JB51 ENUL 2: REVERSAL ANGLE > -2.26 DEG 5 26000143 01011 03000000 00011001 JB51 ENUL 3: REVERSAL ANGLE > -2.47 DEG 5 26000143 01011 030000000000000000000000000			! =	. ^		, ,		2	010	990000000	000011000010	5		
ENUL 7, REVERSAL ANGLE > -10.63 DEG S 260001407 01011 60000000 0001100000111 J0851 ENUL 7, REVERSAL ANGLE > -5.44 DEG S 260001407 01011 60000000 0001100000101 J0851 ENUL 19, REVERSAL ANGLE > -5.44 DEG S 26000141 01011 000000000 0001100001010 J0851 ENUL 19, REVERSAL ANGLE > -5.44 DEG S 26000141 01011 000000000 0001100001010 J0851 ENUL 11, REVERSAL ANGLE > -5.44 DEG S 26000141 01011 000000000 0001100001010 J0851 ENUL 11, REVERSAL ANGLE > -2.26 DEG S 26000141 01011 000000000 0001100001010 J0851 ENUL 11, REVERSAL ANGLE > -0.36 DEG S 26000141 01011 000000000 0001100001010 J0851 ENUL 13, REVERSAL ANGLE > -0.36 DEG S 26000141 01011 000000000 0001100001010 J0851 ENUL 13, REVERSAL ANGLE > 0.33 DEG S 26000141 01011 00000000 0001100001101 J0851 ENUL 19, REVERSAL ANGLE > 0.33 DEG S 26000142 01011 00000000 0001100001010 J0851 ENUL 19, REVERSAL ANGLE > 0.33 DEG S 26000142 01011 00000000 0001100001010 J0851 ENUL 19, REVERSAL ANGLE > 0.33 DEG S 26000142 01011 00000000 0001100001010 J0851 ENUL 19, REVERSAL ANGLE > 0.30 DEG S 26000142 01011 00000000 000110001001 J0851 ENUL 19, REVERSAL ANGLE > 0.30 DEG S 26000142 01011 00000000 000110001001 J0851 ENUL 29, REVERSAL ANGLE > 10.30 DEG S 26000142 01011 00000000 00011000 J0851 ENUL 29, REVERSAL ANGLE > 10.30 DEG S 26000142 01011 00000000 00011000 J0851 ENUL 29, REVERSAL ANGLE > 10.30 DEG S 26000142 01011 00000000 00011000 J0851 ENUL 29, REVERSAL ANGLE > 10.30 DEG S 26000142 01011 00000000 00011000 J0851 ENUL 29, REVERSAL ANGLE > 10.30 DEG S 26000142 01011 00000000 00011000 J0851 ENUL 29, REVERSAL ANGLE > 10.30 DEG S 26000142 01011 00000000 00011000 J0851 ENUL 29, REVERSAL ANGLE > 10.30 DEG S 26000142 01011 00000000 00011000 J0851 ENUL 29, REVERSAL ANGLE > 10.30 DEG S 26000142 01011 00000000 00011000 J0851 ENUL 29, REVERSAL ANGLE > 20.07 DEG S 26000143 01011 00000000 00011000 J0851 ENUL 29, REVERSAL ANGLE > 20.07 DEG S 26000143 01011 00000000 00011000 J0851 ENUL 29, REVERSAL ANGLE > 20.07 DEG S 26000143 01011 000000000 00011000 J0851 ENUL 29, REVERSAL ANGLE > 20.07 DEG S 26000143 0101			ب ب	, A	9			9	0 0	000000000	00011000010	S		
ENUL 7, REVERSAL ANGLE > -9.23 DEG S 260001410 01011 00000000 0001100001011 JBS1 ENUL 6, REVERSAL ANGLE > -6.44 DEG S 260001411 01011 000000000 0001100001000 JBS1 ENUL 6, REVERSAL ANGLE > -6.44 DEG S 260001412 01011 000000000 0001100001000 JBS1 ENUL 19, REVERSAL ANGLE > -6.44 DEG S 260001412 01011 000000000 0001100001000 JBS1 ENUL 11, REVERSAL ANGLE > -3.65 DEG S 260001412 01011 000000000 0001100001010 JBS1 ENUL 12, REVERSAL ANGLE > -0.36 DEG S 260001413 01011 000000000 0001100001010 JBS1 ENUL 13, REVERSAL ANGLE > -0.36 DEG S 260001413 01011 000000000 0001100001011 JBS1 ENUL 13, REVERSAL ANGLE > 0.53 DEG S 260001415 01011 000000000 0001100001011 JBS1 ENUL 13, REVERSAL ANGLE > 1.93 DEG S 26000142 01011 000000000 0001100001011 JBS1 ENUL 19, REVERSAL ANGLE > 4.72 DEG S 26000142 01011 000000000 0001100001011 JBS1 ENUL 19, REVERSAL ANGLE > 4.72 DEG S 26000142 01011 00000000 0001100001011 JBS1 ENUL 20, REVERSAL ANGLE > 7.51 DEG S 26000142 01011 00000000 0001100010101 JBS1 ENUL 20, REVERSAL ANGLE > 10.30 DEG S 26000142 01011 00000000 0001100010101 JBS1 ENUL 20, REVERSAL ANGLE > 10.30 DEG S 26000142 01011 00000000 0001100010101 JBS1 ENUL 20, REVERSAL ANGLE > 11.70 DEC S 26000142 01011 00000000 0001100010101 JBS1 ENUL 20, REVERSAL ANGLE > 11.70 DEC S 26000142 01011 00000000 0001100010101 JBS1 ENUL 20, REVERSAL ANGLE > 16.07 DEG S 26000143 01011 00000000 0001100010101 JBS1 ENUL 20, REVERSAL ANGLE > 16.07 DEG S 26000143 01011 00000000 0001100010101 JBS1 ENUL 20, REVERSAL ANGLE > 20.07 DEG S 26000143 01011 00000000 0001100010101 JBS1 ENUL 20, REVERSAL ANGLE > 21.47 DEG S 26000143 01011 00000000 0001100010101 JBS1 ENUL 20, REVERSAL ANGLE > 21.47 DEG S 26000143 01011 00000000 0001100010101 JBS1 ENUL 20, REVERSAL ANGLE > 21.47 DEG S 26000143 01011 000000000 00011001 JBS1 ENUL 20, REVERSAL ANGLE > 21.47 DEG S 26000143 01011 000000000 00011001 JBS1 ENUL 30, REVERSAL ANGLE > 21.47 DEG S 26000143 01011 00000000000 00011001 JBS1 ENUL 30, REVERSAL ANGLE > 21.47 DEG S 26000143 01011 000000000000000000000000000	EWCL	•	-	٨	0			9	5	00000000	00011000011	5		
ENUL 19, REVERSAL ANGLE > -5.44 DEG S 260001410 01011 000000000 0001100001001 JBS1 ENUL 19, REVERSAL ANGLE > -6.44 DEG S 260001411 01011 00000000 0001100001010 JBS1 ENUL 19, REVERSAL ANGLE > -5.45 DEG S 260001412 01011 000000000 0001100001010 JBS1 ENUL 11, REVERSAL ANGLE > -2.65 DEG S 260001414 01011 00000000 0001100001011 JBS1 ENUL 12, REVERSAL ANGLE > -2.26 DEG S 260001415 01011 00000000 0001100001011 JBS1 ENUL 13, REVERSAL ANGLE > -0.36 DEG S 260001415 01011 00000000 0001100001101 JBS1 ENUL 14, REVERSAL ANGLE > 0.53 DEG S 260001415 01011 00000000 0001100001101 JBS1 ENUL 15, REVERSAL ANGLE > 4.72 DEG S 260001420 01011 00000000 0001100001111 JBS1 ENUL 19, REVERSAL ANGLE > 4.72 DEG S 260001422 01011 00000000 0001100001111 JBS1 ENUL 19, REVERSAL ANGLE > 4.72 DEG S 260001422 01011 00000000 0001100001001 JBS1 ENUL 20, REVERSAL ANGLE > 10.30 DEG S 260001422 01011 00000000 0001100001001 JBS1 ENUL 21, REVERSAL ANGLE > 10.30 DEG S 260001424 01011 00000000 000110001001 JBS1 ENUL 22, REVERSAL ANGLE > 10.30 DEG S 260001424 01011 00000000 000110001010 JBS1 ENUL 23, REVERSAL ANGLE > 11.70 DEG S 260001426 01011 00000000 0001100100 JBS1 ENUL 23, REVERSAL ANGLE > 15.49 DEG S 260001432 01011 00000000 0001100101 JBS1 ENUL 29, REVERSAL ANGLE > 15.49 DEG S 260001432 01011 00000000 00011001001 JBS1 ENUL 29, REVERSAL ANGLE > 15.49 DEG S 260001432 01011 00000000 00011001001 JBS1 ENUL 29, REVERSAL ANGLE > 21.47 DEG S 260001432 01011 00000000 00011001 JBS1 ENUL 29, REVERSAL ANGLE > 21.47 DEG S 260001432 01011 00000000 00011001 JBS1 ENUL 29, REVERSAL ANGLE > 21.47 DEG S 260001433 01011 00000000 00011001 JBS1 ENUL 29, REVERSAL ANGLE > 21.47 DEG S 260001433 01011 00000000 00011001 JBS1 ENUL 29, REVERSAL ANGLE > 21.47 DEG S 260001433 01011 00000000 00011001 JBS1 ENUL 29, REVERSAL ANGLE > 22.86 DEG S 260001433 01011 000000000 00011001 JBS1 ENUL 29, REVERSAL ANGLE > 22.86 DEG S 260001433 01011 000000000000000000000011101 JBS1 ENUL 29, REVERSAL ANGLE > 22.86 DEG S 260001433 01011 00000000000000000000000000	ENCL	Œ.	_	۸	.23	ä		0	010	200000000	11000011000	ñ		
ENUL 19, REVERSAL ANGLE > -6.44 DEG S 260001411 01011 00000000 0001100001001 J851 ENUL 19, REVERSAL ANGLE > -3.65 DEG S 260001412 01011 00500000 0001100001010 J851 ENUL 19, REVERSAL ANGLE > -2.26 DEG S 260001413 01011 00500000 0001100001010 J851 ENUL 12, REVERSAL ANGLE > -2.26 DEG S 260001414 01011 00500000 0001100001010 J851 ENUL 13, REVERSAL ANGLE > -0.35 DEG S 260001417 01011 00500000 0001100001110 J851 ENUL 13, REVERSAL ANGLE > 0.35 DEG S 260001417 01011 00500000 0001100001110 J851 ENUL 13, REVERSAL ANGLE > 1.93 DEG S 260001417 01011 00500000 000110001110 J851 ENUL 19, REVERSAL ANGLE > 4.72 DEG S 260001420 01011 00500000 000110001110 J851 ENUL 19, REVERSAL ANGLE > 4.72 DEG S 260001420 01011 00500000 0001100011010 J851 ENUL 20, REVERSAL ANGLE > 1.91 DEG S 260001422 01011 00500000 0001100011010 J851 ENUL 20, REVERSAL ANGLE > 1.95 DEG S 260001422 01011 00500000 0001100011010 J851 ENUL 20, REVERSAL ANGLE > 1.95 DEG S 260001422 01011 00500000 000110001001 J851 ENUL 20, REVERSAL ANGLE > 1.95 DEG S 260001422 01011 00500000 0001100010101 J851 ENUL 20, REVERSAL ANGLE > 1.95 DEG S 260001424 01011 00500000 0001100010101 J851 ENUL 24, REVERSAL ANGLE > 1.95 DEG S 260001432 01011 00500000 0001100010101 J851 ENUL 25, REVERSAL ANGLE > 1.95 DEG S 260001432 01011 00500000 0001100010101 J851 ENUL 29, REVERSAL ANGLE > 1.95 DEG S 260001432 01011 00500000 0001100010101 J851 ENUL 29, REVERSAL ANGLE > 1.95 DEG S 260001432 01011 00500000 000110001 J851 ENUL 29, REVERSAL ANGLE > 1.95 DEG S 260001432 01011 00500000 00011001 J851 ENUL 29, REVERSAL ANGLE > 1.95 DEG S 260001434 01011 00500000 00011001 J851 ENUL 29, REVERSAL ANGLE > 2.47 DEG S 260001434 01011 00000000 00011001 J851 ENUL 29, REVERSAL ANGLE > 2.47 DEG S 260001434 01011 00000000 00011001 J851 ENUL 39, REVERSAL ANGLE > 2.95 DEG S 260001434 01011 00000000 00011001 J851 ENUL 31, REVERSAL ANGLE > 2.95 DEG S 260001437 01011 00000000 00011001 J851 ENUL 32, REVERSAL ANGLE > 2.95 DEG S 260001437 01011 00000000000000000011101 J851 ENUL 32, REVERSAL ANGLE > 2.95 DEG S 260001437 01011	EXCL	٠.	_	٨	3	-		=	5	300000000	000011000010	1821		
ENUL 19, REVERSAL ANGLE > -5.05 DEG S 260001412 01011 005050000 0001100001010 JB51 ENUL 11, REVERSAL ANGLE > -2.26 DEG S 260001413 01011 005000000 0001100001101 JB51 ENUL 12, REVERSAL ANGLE > -0.26 DEG S 260001415 01011 005000000 0001100001101 JB51 ENUL 13, REVERSAL ANGLE > -0.26 DEG S 260001415 01011 005000000 0001100001101 JB51 ENUL 13, REVERSAL ANGLE > 0.53 DEG S 260001421 01011 005000000 0001100001110 JB51 ENUL 13, REVERSAL ANGLE > 1.93 DEG S 260001421 01011 00500000 0001100001111 JB51 ENUL 15, REVERSAL ANGLE > 4.72 DEG S 260001421 01011 00500000 0001100010111 JB51 ENUL 18, REVERSAL ANGLE > 7.51 DEG S 260001422 01011 00500000 000110001001 JB51 ENUL 20, REVERSAL ANGLE > 7.51 DEG S 260001422 01011 05050000 000110001001 JB51 ENUL 20, REVERSAL ANGLE > 10.30 DEG S 260001422 01011 05050000 000110001001 JB51 ENUL 20, REVERSAL ANGLE > 10.30 DEG S 260001422 01011 05050000 000110001001 JB51 ENUL 20, REVERSAL ANGLE > 10.30 DEG S 260001424 01011 05050000 0001100010101 JB51 ENUL 23, REVERSAL ANGLE > 13.09 DEG S 260001426 01011 00500000 0001100010101 JB51 ENUL 23, REVERSAL ANGLE > 13.09 DEG S 260001426 01011 00500000 0001100010101 JB51 ENUL 29, REVERSAL ANGLE > 15.00 DEG S 260001436 01011 00500000 0001100010101 JB51 ENUL 29, REVERSAL ANGLE > 15.00 DEG S 260001436 01011 00500000 00011001 JB51 ENUL 29, REVERSAL ANGLE > 20.07 DEG S 260001436 01011 00500000 00011001 JB51 ENUL 29, REVERSAL ANGLE > 20.07 DEG S 260001436 01011 00500000 00011001 JB51 ENUL 29, REVERSAL ANGLE > 21.47 DEG S 260001436 01011 00500000 00011001 JB51 ENUL 29, REVERSAL ANGLE > 21.47 DEG S 260001436 01011 00500000 00011001 JB51 ENUL 32, REVERSAL ANGLE > 20.07 DEG S 260001436 01011 00500000 00011001 JB51 ENUL 32, REVERSAL ANGLE > 20.07 DEG S 260001436 01011 00500000 00011001 JB51 ENUL 32, REVERSAL ANGLE > 20.07 DEG S 260001436 01011 00500000 00011001 JB51 ENUL 32, REVERSAL ANGLE > 20.07 DEG S 260001437 01011 00500000 00011001 JB51 ENUL 32, REVERSAL ANGLE > 20.07 DEG S 260001437 01011 0000000000000000000000000000000		æ	4	٨	-6.44	7		=	5	000000000	000110000100	5		
ENUL 19, REVERSAL ANGLE > -2.65 DEG S 260001413 01011 00000000 0001100001010 JB51 ENUL 12, REVERSAL ANGLE > -0.36 DEG S 260001416 01011 00000000 0001100001110 JB51 ENUL 13, REVERSAL ANGLE > -0.36 DEG S 260001416 01011 00000000 0001100001110 JB51 ENUL 13, REVERSAL ANGLE > 0.53 DEG S 260001416 01011 00000000 0001100001111 JB51 ENUL 13, REVERSAL ANGLE > 3.33 DEG S 260001421 01011 00000000 0001100001111 JB51 ENUL 17, REVERSAL ANGLE > 3.33 DEG S 260001421 01011 00000000 0001100001111 JB51 ENUL 19, REVERSAL ANGLE > 4.72 DEG S 260001422 01011 00000000 000110001001 JB51 ENUL 19, REVERSAL ANGLE > 7.51 DEG S 260001422 01011 00000000 000110001001 JB51 ENUL 20, REVERSAL ANGLE > 7.51 DEG S 260001422 01011 00000000 000110001001 JB51 ENUL 21, REVERSAL ANGLE > 10.30 DEG S 260001424 01011 00000000 000110001001 JB51 ENUL 23, REVERSAL ANGLE > 13.09 DEG S 260001425 01011 00000000 000110001001 JB51 ENUL 23, REVERSAL ANGLE > 13.09 DEG S 260001427 01011 00000000 000110001001 JB51 ENUL 24, REVERSAL ANGLE > 15.58 DEG S 260001427 01011 00000000 000110001101 JB51 ENUL 29, REVERSAL ANGLE > 15.58 DEG S 260001427 01011 00000000 000110001101 JB51 ENUL 29, REVERSAL ANGLE > 15.49 DEG S 260001437 01011 00000000 000110001101 JB51 ENUL 29, REVERSAL ANGLE > 21.47 DEG S 260001437 01011 00000000 0001100011001 JB51 ENUL 29, REVERSAL ANGLE > 21.47 DEG S 260001434 01011 00000000 0001100011001 JB51 ENUL 29, REVERSAL ANGLE > 22.46 DEG S 260001437 01011 000000000 0001100011001 JB51 ENUL 29, REVERSAL ANGLE > 21.47 DEG S 260001437 01011 000000000 0001100011001 JB51 ENUL 29, REVERSAL ANGLE > 21.47 DEG S 260001437 01011 000000000 0001100011001 JB51 ENUL 32, REVERSAL ANGLE > 22.46 DEG S 260001437 01011 000000000 0001100011001 JB51 ENUL 32, REVERSAL ANGLE > 25.65 DEG S 260001437 01011 000000000 000110000000000000000		•	¥.	^	ių.			= :	910	00000000	0001100001	5		
ENUL 13, REVERSAL ANGLE > -2.26 DEG S 260001415 01011 00500000 C001100001151 J851 ENUL 13, REVERSAL ANGLE > -0.36 DEG S 260001415 01011 00500000 00011000001101 J851 ENUL 14, REVERSAL ANGLE > 1.93 DEG S 260001417 01011 000000000 00011000001111 J851 ENUL 15, REVERSAL ANGLE > 1.93 DEG S 260001420 01011 000000000 0001100001111 J851 ENUL 15, REVERSAL ANGLE > 4.72 DEG S 260001420 01011 000000000 0001100001111 J851 ENUL 17, REVERSAL ANGLE > 4.72 DEG S 260001422 01011 00000000 000110001001 J851 ENUL 19, REVERSAL ANGLE > 6.12 DEG S 260001422 01011 00000000 000110001001 J851 ENUL 21, REVERSAL ANGLE > 1.51 DEG S 260001422 01011 00000000 000110001001 J851 ENUL 21, REVERSAL ANGLE > 10.30 DEG S 260001422 01011 00000000 0001100010101 J851 ENUL 22, REVERSAL ANGLE > 10.30 DEG S 26000142 01011 00000000 0001100010101 J851 ENUL 23, REVERSAL ANGLE > 10.30 DEG S 26000142 01011 00000000 0001100010101 J851 ENUL 23, REVERSAL ANGLE > 11.70 DEC S 26000142 01011 00000000 000110001101 J851 ENUL 23, REVERSAL ANGLE > 15.09 DEG S 26000142 01011 000000000 0001100011001 J851 ENUL 29, REVERSAL ANGLE > 15.08 DEG S 26000143 01011 000000000 0001100011001 J851 ENUL 29, REVERSAL ANGLE > 15.08 DEG S 26000143 01011 000000000 0001100011001 J851 ENUL 29, REVERSAL ANGLE > 16.08 DEG S 26000143 01011 000000000 0001100011001 J851 ENUL 29, REVERSAL ANGLE > 16.08 DEG S 26000143 01011 000000000 0001100011001 J851 ENUL 29, REVERSAL ANGLE > 10.20 DEG S 26000143 01011 000000000 000110011001 J851 ENUL 29, REVERSAL ANGLE > 22.08 DEG S 26000143 01011 000000000 000110011001 J851 ENUL 29, REVERSAL ANGLE > 22.08 DEG S 26000143 01011 00000000 000110001 J851 ENUL 31, REVERSAL ANGLE > 22.08 DEG S 26000143 01011 00000000 00011001001 J851 ENUL 31, REVERSAL ANGLE > 22.08 DEG S 26000143 01011 00000000 00011001000 J851 ENUL 32, REVERSAL ANGLE > 22.08 DEG S 26000143 01011 00000000 00011001001 J851 ENUL 32, REVERSAL ANGLE > 22.08 DEG S 260001440 01011 0000000000000000000000000	3	_	7		ri I	u		=	5	000000000	0001100001	5		
ENUL 19, REVERSAL ANGLE > -0.36 DEG	3	e e	4		i	0		Ė	0	000000000	C3011000C11C	5		
EMUL 19, REVERSAL ANGLE > 0.53 DEG			4		-0.30	9		= :	010	00000000	000110000113	5		
EMUL 15, REVERSAL ANGLE > 1.93 DEG S 260001417 01011 000000000 000110100001111 JBS1 LEVUL 15, REVERSAL ANGLE > 4.72 DEG S 260001421 01011 00000000 0001100010001 JBS1 LEVUL 17, REVERSAL ANGLE > 4.72 DEG S 260001422 01011 00000000 0001100010001 JBS1 LEVUL 19, REVERSAL ANGLE > 7.51 DEG S 260001422 01011 00000000 0001100010011 JBS1 LEVUL 20, REVERSAL ANGLE > 9.91 DEG S 260001424 01011 00000000 0001100010011 JBS1 LEVUL 20, REVERSAL ANGLE > 10.33 DEG S 260001424 01011 00000000 0001100010011 JBS1 LEVUL 21, REVERSAL ANGLE > 11.70 DEC S 260001425 01011 0000000 0001100010110 JBS1 LEVUL 22, REVERSAL ANGLE > 13.09 DEG S 260001426 01011 0000000 0001100010111 JBS1 LEVUL 23, REVERSAL ANGLE > 13.09 DEG S 260001437 01011 0000000 0001100010101 JBS1 LEVUL 25, REVERSAL ANGLE > 17.28 DEG S 260001437 01011 00000000 0001100011001 JBS1 LEVUL 25, REVERSAL ANGLE > 17.28 DEG S 260001432 01011 00000000 0001100011001 JBS1 LEVUL 27, REVERSAL ANGLE > 17.28 DEG S 260001432 01011 00000000 0001100011001 JBS1 LEVUL 27, REVERSAL ANGLE > 10.07 DEG S 260001432 01011 00000000 0001100011001 JBS1 LEVUL 29, REVERSAL ANGLE > 20.07 DEG S 260001432 01011 00000000 0001100011001 JBS1 LEVUL 29, REVERSAL ANGLE > 22.86 DEG S 260001437 01011 00000000 0001100011101 JBS1 LEVUL 29, REVERSAL ANGLE > 24.26 DEG S 260001436 01011 0000000 0001100011101 JBS1 LEVUL 29, REVERSAL ANGLE > 24.26 DEG S 260001437 01011 0000000 0001100011001 JBS1 LEVUL 21, REVERSAL ANGLE > 24.26 DEG S 260001437 01011 0000000 0001100011001 JBS1 LEVUL 22, REVERSAL ANGLE > 24.26 DEG S 260001430 01011 0000000 0001100010010101 JBS1 LEVUL 31, REVERSAL ANGLE > 25.65 DEG S 260001430 01011 0000000 000110001001000 JBS1 LEVUL 32, REVERSAL ANGLE > 25.65 DEG S 260001430 01011 000000000 000110011001 JBS1 LEVUL 31, REVERSAL ANGLE > 25.65 DEG S 260001430 01011 00000000000000000000000000	ENCL	4	4		.53	8		Ξ.	20	00000000	200110000111	5		
EMUL 19, REVERSAL ANGLE > 3.33 DEG S 260001420 01011 602C60000 6001100010030 4831 4831 4841 19, REVERSAL ANGLE > 4.72 DEG S 260001422 01011 602C60030 0001100010001 4851 4851 4851 4851 4851 4851 4851 485	EX	ů.	Ä		- 93	•		Ξ	5	30000000	000110000111	5		
EMUL 19, REVERSAL ANGLE > 4.72 DEG S 260001421 01011 00000000 0001100010001 JB51 EMUL 19, REVERSAL ANGLE > 6.12 DEG S 260001422 01011 00000000 0001100010010 JB51 EMUL 19, REVERSAL ANGLE > 7.51 DEG S 260001422 01011 00000000 0001100010011 JB51 EMUL 21, REVERSAL ANGLE > 10.30 DEG S 260001424 01011 00000000 000110001001 JB51 EMUL 22, REVERSAL ANGLE > 10.30 DEG S 260001425 01011 00000000 000110001010 JB51 EMUL 22, REVERSAL ANGLE > 11.70 DEC S 260001425 01011 00000000 000110001011 JB51 EMUL 23, REVERSAL ANGLE > 11.70 DEC S 260001425 01011 00000000 000110001011 JB51 EMUL 24, REVERSAL ANGLE > 15.68 DEG S 260001427 01011 00000000 000110001011 JB51 EMUL 25, REVERSAL ANGLE > 15.68 DEG S 260001431 01011 00000000 000110001101 JB51 EMUL 27, REVERSAL ANGLE > 15.68 DEG S 260001431 01011 00000000 000110001101 JB51 EMUL 27, REVERSAL ANGLE > 18.07 DEG S 260001433 01011 00000000 000110001101 JB51 EMUL 28, REVERSAL ANGLE > 20.07 DEG S 260001435 01011 00000000 00011001101 JB51 EMUL 28, REVERSAL ANGLE > 21.47 DEG S 260001435 01011 00000000 00011001101 JB51 EMUL 28, REVERSAL ANGLE > 21.47 DEG S 260001435 01011 00000000 00011001101 JB51 EMUL 29, REVERSAL ANGLE > 21.47 DEG S 260001435 01011 00000000 00011001101 JB51 EMUL 31, REVERSAL ANGLE > 24.26 DEG S 260001437 01011 00000000 000110011001 JB51 EMUL 32, REVERSAL ANGLE > 25.65 DEG S 260001440 01011 00000000 0001100100000 JB51 EMUL 32, REVERSAL ANGLE > 25.65 DEG S 260001440 01011 0000000000000000000000000	EXUL	<b>.</b>	14			111		2	5	300000000	000110001000	5		
ENUL 21, REVERSAL ANGLE > 6.12 DEG S 260001422 01011 00050000 0001100010010 J851 ENUL 19, REVERSAL ANGLE > 7.51 DEG S 260001424 01011 00050000 000110001011 J851 ENUL 21, REVERSAL ANGLE > 10.30 DEG S 260001425 01011 00050000 0001100010101 J851 ENUL 22, REVERSAL ANGLE > 11.70 DEC S 260001425 01011 00050000 0001100010101 J851 ENUL 22, REVERSAL ANGLE > 11.70 DEC S 260001425 01011 000500000 0001100010101 J851 ENUL 23, REVERSAL ANGLE > 13.09 DEG S 260001425 01011 000500000 0001100010101 J851 ENUL 23, REVERSAL ANGLE > 15.69 DEG S 260001437 01011 000500000 0001100011001 J851 ENUL 25, REVERSAL ANGLE > 17.26 DEG S 260001437 01011 000500000 0001100011001 J851 ENUL 25, REVERSAL ANGLE > 18.07 DEG S 260001433 01011 000500000 0001100101001 J851 ENUL 29, REVERSAL ANGLE > 18.07 DEG S 260001433 01011 000500000 0001100011001 J851 ENUL 29, REVERSAL ANGLE > 20.07 DEG S 260001435 01011 000500000 000110001101 J851 ENUL 29, REVERSAL ANGLE > 21.47 DEG S 260001435 01011 000500000 000110001101 J851 ENUL 29, REVERSAL ANGLE > 21.47 DEG S 260001435 01011 000500000 000110001101 J851 ENUL 29, REVERSAL ANGLE > 21.65 DEG S 260001435 01011 000500000 0001100011001 J851 ENUL 32, REVERSAL ANGLE > 24.65 DEG S 260001440 01011 0005000000 00011000100000 J851 ENUL 32, REVERSAL ANGLE > 25.65 DEG S 260001440 01011 00050000000000000000000000		7.	¥.		4.72	•		2	5	000000000	000110001000	ij		
EMUL 29, REVERSAL ANGLE > 7.51 DEG S 260001423 01011 060506060 0001100010011 JB51 EMUL 20, REVERSAL ANGLE > 9.91 DEG S 260201424 01011 060505060 0001100010101 JB51 EMUL 21, REVERSAL ANGLE > 10.30 DEG S 260201425 01011 060505060 0001100010101 JB51 BEVIL 23, REVERSAL ANGLE > 11.70 DEC S 260201425 01011 060505060 000110001011 JB51 EMUL 23, REVERSAL ANGLE > 13.09 DEG S 260001427 01011 060505000 000110001011 JB51 EMUL 24, REVERSAL ANGLE > 15.58 DEG S 260001437 01011 060505000 000110001101 JB51 EMUL 25, REVERSAL ANGLE > 15.28 DEG S 260001437 01011 060505000 000110001101 JB51 EMUL 25, REVERSAL ANGLE > 17.28 DEG S 260001432 01011 000000000 000110001101 JB51 EMUL 29, REVERSAL ANGLE > 18.57 DEG S 260001433 01011 000000000 000110001101 JB51 EMUL 29, REVERSAL ANGLE > 20.07 DEG S 260001435 01011 000000000 0001100011101 JB51 EMUL 29, REVERSAL ANGLE > 22.86 DEG S 260001437 01011 00000000 0001100011110 JB51 EMUL 31, REVERSAL ANGLE > 24.26 DEG S 260001436 01011 00000000 0001100011110 JB51 EWUL 32, REVERSAL ANGLE > 24.26 DEG S 260001436 01011 00000000 000110010011110 JB51 EWUL 32, REVERSAL ANGLE > 25.65 DEG S 260001436 01011 00000000 0001100100000 JB51	ENCL	_	EVERSAL		6.12	w		2	0	ဗ္ဂ	000110001001	5		
EMUL 20, REVERSAL ANGLE > 8.91 DEG S 260201424 01011 26222260 0001100010100 JB51 EMUL 21, REVERSAL ANGLE > 10.32 DEG S 260601425 01011 00320056 000110001010 JB51 EMUL 22, REVERSAL ANGLE > 11.70 DEG S 260601425 01011 003056 00011000110 JB51 EMUL 23, REVERSAL ANGLE > 13.09 DEG S 260601437 01011 003050000 0001100010111 JB51 EMUL 24, REVERSAL ANGLE > 15.68 DEG S 260601437 01011 003050000 0001100011001 JB51 EMUL 25, REVERSAL ANGLE > 15.68 DEG S 260601432 01011 003050000 0001100011001 JB51 EMUL 25, REVERSAL ANGLE > 17.28 DEG S 260601432 01011 003050000 0001100011001 JB51 EMUL 27, REVERSAL ANGLE > 18.57 DEG S 260601433 01011 03050000 0001100011011 JB51 EMUL 27, REVERSAL ANGLE > 20.07 DEG S 260601435 01011 03050000 0001100011101 JB51 EMUL 29, REVERSAL ANGLE > 21.47 DEG S 260601435 01011 03050000 0001100011101 JB51 EMUL 31, REVERSAL ANGLE > 22.86 DEG S 260001436 01011 003050000 00011000111101 JB51 EMUL 32, REVERSAL ANGLE > 24.26 DEG S 260001436 01011 003050000 00011000111101 JB51 EWUL 32, REVERSAL ANGLE > 25.65 DEG S 260001436 01011 003050000 0001100010001 JB51 EWUL 32, REVERSAL ANGLE > 25.65 DEG S 260001436 01011 003050000 0001100010000 JB51	EKL		EVERSAL		7.51	w		2	0.0	ä	000110001031	5		
EMUL 21, REVERSAL ANGLE > 10.33 DEG S 260001425 61011 6C35005C5 000110001010 JBE1 EMUL 22, REVERSAL ANGLE > 11.70 DEC S 260001426 01011 0CC5003C5 0001100010110 JB51 EMUL 23, REVERSAL ANGLE > 13.09 DEG S 260001427 01011 0CC5003C5 0001100010111 JB51 EMUL 23, REVERSAL ANGLE > 14.49 DEG S 260001431 01011 0CS503C00 0001100011000 JB51 EMUL 25, REVERSAL ANGLE > 17.28 DEG S 260001431 01011 0CSC603C0 0001100011001 JB51 EMUL 27, REVERSAL ANGLE > 17.28 DEG S 260001432 01011 0CSC603C0 0001100011001 JB51 EMUL 27, REVERSAL ANGLE > 10.07 DEG S 260001432 01011 0CSC603C0 000110001101 JB51 EMUL 29, REVERSAL ANGLE > 21.47 DEG S 260001435 01011 0CSC603C0 0001100011101 JB51 EMUL 29, REVERSAL ANGLE > 21.47 DEG S 260001435 01011 0CSC603CC 0CO1100011101 JB51 EMUL 31, REVERSAL ANGLE > 24.26 DEG S 260001436 01011 0CCC603CC 0CO1100011101 JB51 EWUL 31, REVERSAL ANGLE > 24.26 DEG S 260001436 01011 0CCC600C0 0CO1100011101 JB51 EWUL 32, REVERSAL ANGLE > 25.65 DEG S 260001430 01011 0CCC600C0 0CO11000110101 JB51 EWUL 32, REVERSAL ANGLE > 25.65 DEG S 260001440 01011 0CCC600C0 0CO11000100010 JB51	EMU		EVERSAL		9.91	ö		ŭ	0.0	2	000110001010	-		
EMUL 22, REVERSAL ANGLE > 11.70 DEC	EFC		ERSAL	4.1	10.3	0		ü	5	2	000110001010	111		
EMUL 23, REVERSAL ANGLE > 13.09 DEG S 260001427 01011 GCDC00000 00011000010111 J851 EMUL 24, REVERSAL ANGLE > 14.49 DEG S 260001430 01011 0CDC0C000 00011000011000 J851 EMUL 24, REVERSAL ANGLE > 15.68 DEG S 260001431 01011 0CDCCC0C00 0001100011001 J851 EWUL 25, REVERSAL ANGLE > 18.57 DEG S 260001432 01011 0CDCCCCCOCO 000110010101 J851 EWUL 27, REVERSAL ANGLE > 18.57 DEG S 260001432 01011 CDCCCCCCO 000110001101 J851 EWUL 29, REVERSAL ANGLE > 20.07 DEG S 260001435 01011 DGCCCCCCC 0001100011101 J851 EWUL 29, REVERSAL ANGLE > 21.47 DEG S 260001435 01011 DGCCCCCCC 0001100011101 J851 EWUL 39, REVERSAL ANGLE > 24.26 DEG S 260001436 01011 00000000 00011001101 J851 EWUL 32, REVERSAL ANGLE > 24.26 DEG S 260001440 01011 0000000 0001100100100100 J851 EWUL 32, REVERSAL ANGLE > 25.65 DEG S 260001440 01011 00000000 00011001000000 J851	EXT		ERSAL		11.7	<b>c</b>		7	000	3	000110001011	5		
EMUL 24, REVERSAL ANSLE > 14.49 DEG S 260001430 01011 055505000 0001100011000 J851 EMUL 25, REVERSAL ANGLE > 15.58 DEG S 260001431 01011 055505000 0001100011001 J851 EMUL 25, REVERSAL ANGLE > 17.28 DEG S 260001432 01011 000000000 0001100011010 J851 EMUL 27, REVERSAL ANGLE > 18.67 DEG S 260001434 01011 050500000 0001100011101 J851 EMUL 28, REVERSAL ANGLE > 20.07 DEG S 260001434 01011 050500000 0001100011101 J851 EMUL 39, REVERSAL ANGLE > 21.47 DEG S 260001435 01011 050500000 0001100011110 J851 EMUL 31, REVERSAL ANGLE > 24.26 DEG S 260001437 01011 005000000 0001100100101111 J851 EMUL 32, REVERSAL ANGLE > 25.65 DEG S 260001440 01011 00000000 0001100100000 J651	22		ERSAL		3.0	0	s ·	6000142	5	် ဂ	0001100010	1997		
EMUL 25, REVERSAL ANGLE > 15.58 DE3 S 260001431 01011 035550000 6001100011001 J851 EMUL 25, REVERSAL ANGLE > 17.28 DE3 S 260001432 01011 005000000 0001100011010 J851 EMUL 27, REVERSAL ANGLE > 18.57 DEG S 26501433 01011 C0505000 000110001101 J851 EMUL 28, REVERSAL ANGLE > 20.07 DEG S 26501435 01011 03550000 0001100011100 J851 EMUL 29, REVERSAL ANGLE > 21.47 DEG S 26501435 01011 03550000 0001100011110 J851 EWUL 31, REVERSAL ANGLE > 24.26 DEG S 260001437 01011 003050000 0001100111110 J851 EWUL 31, REVERSAL ANGLE > 25.65 DEG S 260001440 01011 003050000 000110011011111 J851	EXCL		ERSAL		4.4	a	S.	6000143	5	ဋ္ဌ	0001100011	1887		
EMUL 25, REVERSAL ANGLE > 17.28 DEG S 260001432 01011 000000000 0001100011010 J851 BENUL 27, REVERSAL ANGLE > 18.57 DEG S 26001433 01011 03050000 0001100011101 J851 BENUL 29, REVERSAL ANGLE > 20.07 DEG S 26001434 01011 30050000 00011000111101 J851 BENUL 29, REVERSAL ANGLE > 21.47 DEG S 26001435 01011 00050000 00011000111101 J851 EWUL 31, REVERSAL ANGLE > 22.86 DEG S 260001436 01011 000000000 00011000111110 J851 EWUL 31, REVERSAL ANGLE > 24.26 DEG S 260001440 01011 000000000 00011001000111111 J851	ENUL		ERSAL		2.S	Ω.	s e	6000143	5	3	600110001100	٠- درو		
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		XIde:S:	w	26000516	=	00000000	10100111011	<b>J853</b>		
8227 3KHZ GATE.	TO ENT.	*YES: NORMAL	#ODE	2600051	01011 0	Ó000	010100111100	m		

P78-2 COMMAND
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SC 3DVd	,MOMENTARY(M),SERIAL(S),NON-REDUNDANT F	
	STATE = (PULSE(P), LATCHING(L), UNLATCHING(U)	
•	T 08-18-78 REV ?	
	P78-2 COMMAND LIST 08-18-78 REV ? SC9 EXPERIMENT	

•

S CMD NO.	NAME	STATE OCTAL	OCTAL	Z 10	BINARY EITS 6-32	6-32	T'A VERIF	ICATION	复	TH VERIFICATION AND REFERENCE
8279	3K MCDE=HIGH:MCTOR PWR: EW=117,NS=DFF	s 26	0005630 0	1011	000000000	260005630 01011 066500050 0101110011060	J 08539			
8280	3K NODE=HIGH:NOTOR PWR: EW=117,NS=78.1	s 26	260005631 C	61011	000000000	5555556565 0101110011501	J8539			
6281	3K MODE =HIGH; MOTOR PWR: EK= 117, NS=62.5	s 28	280005632 0	51311	000000000	0101110011010	95590			
8262	3K MOJE=HIGH: MOTOR PER: Ew= 117, NS=125	S 26	260005533 0	11010	000000000	005500000 0101110011311	<b>08539</b>			
8283	NORTH SOUTH FOSITION STATUS, 255	\$ 26	260032377 0	010	000000000	000000000 001001111111	1040.41040	17		
4284	EAST WEST POSITION STATUS, 255	s 26	260002777 0	21010	0000000000	000000000 001011111111	04015.04018	<b>8</b>		
8285	DKELL/CYCLE = 255	S 26	260003777 0	01011	000000000	0011111111111	J8533			
6296	INITIAL DWELL STEP = 255	s 26	260004377 C	11010	000000000	0100011111111				
8287	DWELL STEP SIZE = 0	S 26	260004400 0	01011	030000000	01001000000000	J 48535			
6288	DWELL STEP SIZE = 255	<b>S</b> 26	260004777 0	11010	000000000	111111111111111	J8535			
8283	ACCUMULATOR GATING = 255	<b>S</b> 26	260005377 0	11010	000000000	0101011111111	<b>98</b> 2380	•		
8290	MOTOR - 2455	<b>S</b> 26		01011	000202220	010111111111	08539			
8231	LEHLEI-DSS 0	5 26	260004500	01011	000000000	0100101000000	J8535	LC 124-42		
8292	LEHLEI-DSS 1	s 26	260004501 0	01211	000000000	0100101000001	J6535	LC 124-42		
8293	LEHLEI-DSS 2	5 26	260004502 0	01011	000000000	0100101000010	J 98335 LC	124-42		
8294	LEHLEI-DSS 4	\$ 26	260004504 0	01011	000000000	0100101000100	<b>18535</b> 1	124-42		
8295	LEHLEI-DSS 8	s 26	260004510 0	01011	000000000	0100101001000	J8535 I	_		
8236	LEMLEI-DSS 16	s 26	260004520 0	01011	000000000	00000000 01001010000 JB535		124-42		
R297	LEMLE1-05S 32	5 26	260004540 01011		0000000000	0000001100000 0000000000000000000000000		10 124-42		

APPENDIX 8

STATUS WORD MAP

	LSB 2##0	<b>B</b> 1DCC	Never 1		11000	NSF F9	FIBCC	71050	20218	RATE C	FLEE	2016	NSPB9	2001		NSPR1	FIDCC	EWFEL	222	BIECC	460	3100	1000		200	NSF B9	226		NBPBI	RIDCC	EUPF1	20275	22314		NSFBI	B1700	DO I	MSF EP		B1000	NSP EL		BINCC	4449X	15020	31160		EWP	#10CC	100	Ç
	2441	B2DCC	MSFBZ	FLORES	<b>3</b> 20CC	MSPB10	BZDCC	72020	125CC	POUCE POUCE	CHOR?	B2DCC	NSPB10	250CC	12050	NSC R2	B2DCC	EWFB2 /	#2FCC	RZDCC	<b>¥</b> 01	B2DCC	ESPEZ FORT	17074	2000	NSPB10	2000	NOON O	NSP B2	Bricc	E4PB2	MSPRIO	B2DCC		NSF B2	#2DCC	DOUGE	NSPB10	1 70B	BINCC	28-87 28-87	FUCC	BZICC	MSPB10		Bance	RSF RZ	EUFB2	#2bcc	3000	AC10
	2882	B3MCC	10 A CON	11011	Papec	MSFB11	<b>930CC</b>	73080	Pance			BIDCC	MEPB11	<b>B30CC</b>		MSPRI	PIDCC	EHP13	#30CC	BIDCC	<b>A</b> 62	#30CC	200		B30CC	NSPB11			NE PRO	B3DCC		MSPB11	#3BCC		MSP #3	BACCC FLE BA	Banco	NSFB11		Babcc	10 to 1	PADCC FLERT	#30CC	MSPBIL		<b>B3DCC</b>	RAPES	EWPB3	Maper	13000	NC11
	2463	<b>84</b> 0CC	WSP D4		P4DCC	CCUNS	74bcc	74050	746CC		V	14600	CCIMIS	#40CC	14050	NSV N	B 4 DCC	EWPB4	200		LEN	#4DCC	4002 4002		A DCC	CCMMS	74BCC		X6-12-2	14 DCC			2700		MSPKA	PADCC	746C	CCUMOS	2000	700	18P84	P4DCC Fubba	34600			24000		EMPRA		T SC	NC12
	2##4	BSDCC	SEPES.	FUERE	PSDCC	EWFE	<b>ESPCC</b>	<b>J203C</b>		1000	3076	22024	ENPB9	B21CC	15080	NSV-RS	22000	EMPBS	<b>BSECC</b>	RSDCC	**TYDE	BSICC	200			EMPB9	2000 2000	E862.0	SPESS	<b>3216C</b>			BSDCC		NSPRS	RSDCC	BSUCC	EW B9		2250	20-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-02 00-00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00		BSICC	EUP B9	CHUES	PSDCC		ENPIS		2005	•
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A STRUCT	2886	SCAN			SCAN				SCAN	1400	CUPES CUPES	SCAN	EWF B11	SCAN			SCAN	EWPB7	SCAN	SCAN	**16041	SCAN	NSF1:7	SCAM	SCAR	EWFB11	SCAN	STAN SEC	NSP.B7	SCAN	EEF97	FLFF	SCAN				SCAN	EWPR11	SCEN	SCAN S	NSP 57							EWP87	SCAL	SCAN .	<b>3</b> 2
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	2683	BADCC	744		940CC	CCHMS	MADCC	AN SELE		7777	FLORE	14DCC	CCENS	PADCC		NSP BA	Z ICC	EUF B4	2000		PAEML	14DCC			<b>7</b>	CCIMIS		14 E	MSP	94000			PADCC		M8784	FADCC FUELS	140CC	CCHATS		2		E Pro	<b>340CC</b>		725	B40CC	4000	Car in		#4DCC	7
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URE	2885	37996	167 B4		0000	ENFRIO	3996	PEKSLL	2000			22874	EW BIO	22674	PAPE IN	MET BA	22074	EWY	22076	1700	PAEML	33474				ENTRIO	227	T TOTAL	76.25	33096		ELF BIO	37474		1		3			32694			_					74.00			
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to DAT	458 2887	**IBB4*	2		Tale of	CUEU	**1864	TOWER !	847 FF 84	44.7	9491	##1 Ph##	CCAFE	#3-10 L4#	PONCH.	80,53	14 TBbee	ELP TO	LATERATE VIEW	3276003	MEW.I.	20180			1000	200	117841	a l Back	2	and La		KE	BOTHER	it i	24.1	10120	1			1			a faber	C. O.F. D.	CHOCK	10 7 1000	272000			18.7 Beet	
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# APPENDIX 9

Calibration of Experiment SC9 on Satellite P78-2

This document describes the current state of the calibration as of 28 February 1981 of experiment 90-9 on satellite P78-2.

#### 1. IONS

Both the ion and electron guns use multichannel differential electros—'s tatic analyzers. We have been using the geometric factor (G) and conversion factor (H) from ATS—6;

G = 1.6*10**-3 cm-cm-steradH = G * (delta R)/E = 0.2*G

An energy dependent efficiency is added to this conversion factor at low energies due to the post-analysis acceleration of particles between the focussing lens and the spiraltron detector to give the complete conversion factor. This occurs gradually around 1-3 keV for the ions (fig. 1.1). The efficiency variations are described by

eff(ions) = 1 + 2/[1 + (E(keV)/1.5)**3]and the corrected count rate is (raw count rate)/eff(ion).

Data was compared between SC-2,9C-5 and SC-9 to test for agreement. The ion data appeared to agree well over the entire range of overlapping energies (fig. 1.2, 1.3).

# 2. Energy Corrections

In the high energy (North/South) detectors the actual voltage on the analyzer plates differs from the nominal voltage E0 = -21 + 16.1*(1.145**S)

where S is the step number (0 < S < 63). One must take into account a temperature dependent transient response voltage which occurs following the transition from a high energy step to a low energy step. When the analyzer voltage drops from a high value to a low value a voltage offset occurs. This offset is umpredictable for the first 1/4 to 1/2 second and then decays away with a 1/(t+c) response, where t is the time after the transition. In order to compensate for this effect we must add a temperature dependent correction term to EO.

R = E0 + C1 + (1/(4t+1) + 1/(4t+(dwell time) + 65) - 1/97

where C1 has the form

### $C1 = A + R^*exp(C^*T)$

The constants A,B and C were determined using the high energy electron data. During a very low energy dwell the analyzer energy will sweep through the photoelectron spike and a Cl value can be chosen to fit the dwell spectrum to the scan spectrum which follows it. The fit was done for temperatures of 8,13 and 17 degrees centigrade, and the values were determined to be

 $A = 18.3 \quad B = 0.43 \quad C = 0.05$ where there welless more precisely applied by

More work to determine these values more precisely would be desirable, and probably will be undertaken as software development permits.

3. Analog Voltage Determination of Detector Angles

There are two methods of determining the position of the rotating de-

tector assemblies, a digital step counter and an analog voltage. The step counter is normally more accurate, but when the detector sticks the voltage must be used to determine the detector angle.

We looked for days when the heads were rotating without sticking at various temperatures in order to cross-calibrate these two methods. We plotted voltage against Angle(step counter) (see fig 3.1), assuming a standard curve at 21 degrees (fig 3.2). A straight-line-segment fit was made to this curve. The assumption was made that the temperature shifted the standard curve linearly, proportional to the voltage.

A hysteresis problem is apparent in figure 3.1, for the voltage as the detector moves up is not the same as the voltage at the same position as it swings back the other way. This is at present unexplained. The effect is small enough to allow us to use the piecewise-linear fit we have obtained and yet is annoying enough to merit some future consideration.

#### 4. Electrons

The analysis for electrons is similar to that for ions. The geometric factor has been halved by placing a plate over the detector aperture to prolong the useful life of the spiraltron. This is necessary because the electron sensors are subject to much higher counting rates than are the ion sensors. The expression for lens efficiency is

eff = 
$$A/C$$
  
 $C = 1$  ;  $E < 100$  eV  
 $C = 1 + 50/E(eV)$  ;  $E > 100$  eV  
 $A = 1 + 2/\{1 + (E(keV)/.15)**3\}$ 

C takes into account the fact that the suppressor voltage is turned on at 100 eV to exclude secondary electrons and other background producting particles.

The electron detectors must also take into account the spiraltron efficiency. We use the calibration curve of Archuleta and DeForest (1971) that was obtained for the instrument that flew on ATS-5. They found that the efficiency was approximately constant for ions, and for electrons the following was a good fit to the data.

eff(spi) = 
$$1 - 2/B$$
  
B =  $3 + 6.5 [.2 + E(keV)] + 30/[.2 + E(keV)]**3$ 

The total conversion factor as a function of energy is shown in figure 1.1. The corrected count rate is given by

Comparison of our data with that of other instruments in the same energy range reveals that when comparing distribution functions we were higher by factors on the order of 5 to 10 (figures 1.2, 4.1). The high count rates seem to indicate that these are real discrepencies that can't be explained as fluctuations. It is necessary to look at all three instruments and examine the possible causes for these differences.

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## a) spiraltron degradation

Several of the bias tests that had been run were analyzed to try to get a handle on the problem of spiraltron degradation. The detecters have four allowable bias levels. They allow us to vary the voltage applied across the spiraltrons and so vary their sensitivity.

A bias test is designed to run through a series of bias levels in a constant environment, allowing us to determine if an increased bias level results in an increased counting rate. If not, all the particles are being measured. If so, the instrument is degraded somewhat, and we can normalize our counts to the highest bias level.

Usable bias tests were run on days 39,179,201 and 278. Scans were plotted for each bias level and the spectral shift was estimated. More work needs to be done in this area. Cross-calibration with the other instruments will allow us to make the bias data absolute, rather than merely relative to our highest bias level. Also ,long-term averaging of electron count rates could be done to show us the overall fall off in spiraltron sensitivity.

## h) spiraltron calibration

Hardy claims to have obtained a significantly different calibration curve than that of Archuletes and DeForest while calibrating his instrument. The possibility exists that our spiraltron calibration curve might be wrong. Perhaps mutual normalization of 9C-2, 9C-5 and 9C-9 is the way to approach this; we could get numbers that we could agree on even if they were not correct in the absolute sense.

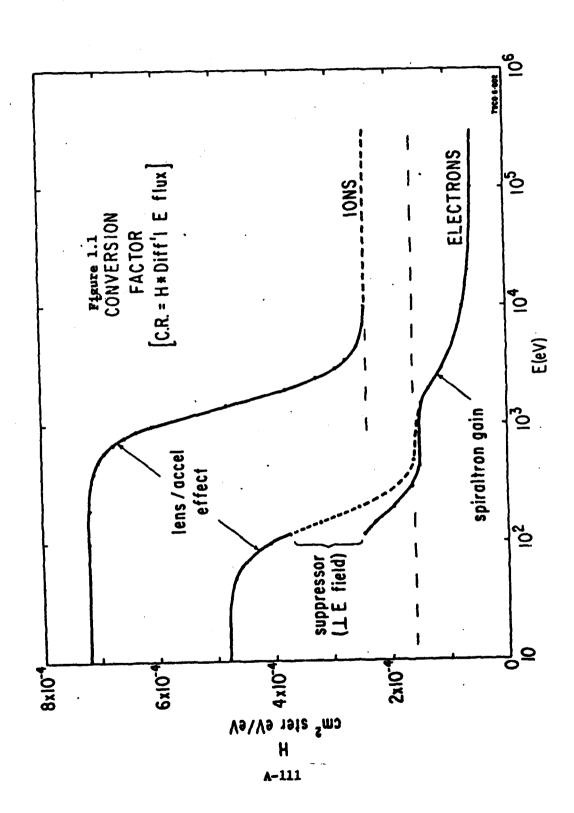
# c) geometric factors

It is desirable to verify that the geometric factor that we are using is correct. One method of doing this is to search our data set for cases where the spacecraft charges after becoming eclipsed. If we assume that the environment is constant, we will see the same spectrum shifted in energy. If we can find these situations it will allow us to compare our calibration at different energies and so verify our geometric factor.

#### 5. Sun Pulses

The problem of sun pulses should also be addressed. Our instrument gives us high count rates when pointing in the direction of the sun. Figure 5.1 shows this effect. The stars represent data taken while our instrument is looking at the hemisphere towards the sun, the circles that data taken while the instrument was pointing away from the sun. The added counts due to the sun can be seen in the angle dependent deviation from the actual spectrum defined by the circles in the data taken while we were pointing towards the sun.

We need to extend our software to extract the sun angle from the attitude information. We can then look through a statistically significant number of cases to determine the response of our detector as a function of sun angle. If this is constant over time we could then subtract out the "average sun response" from our data as appropriate.



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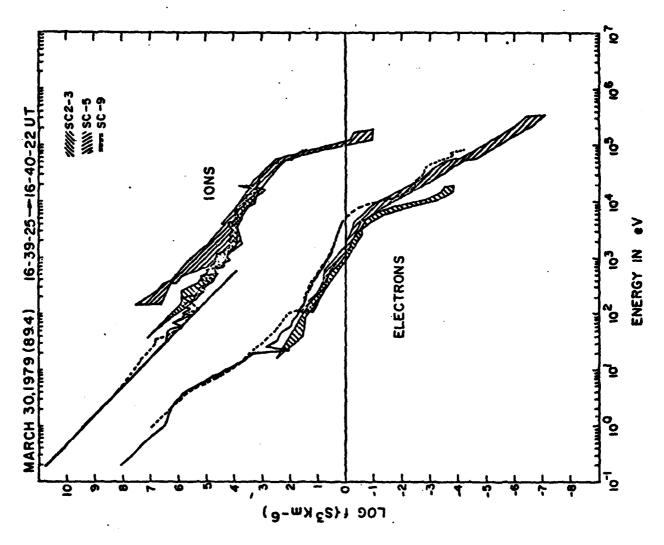
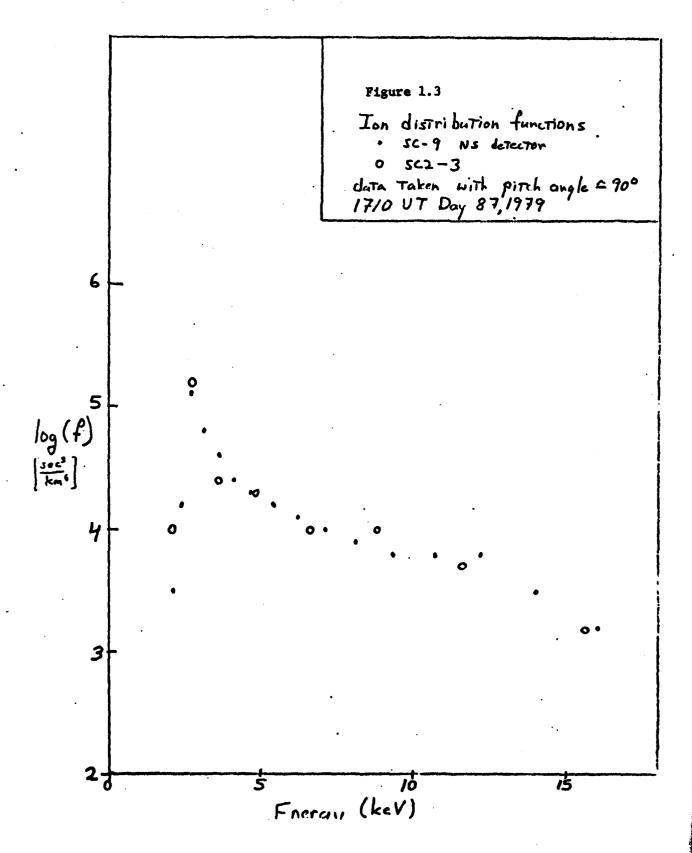
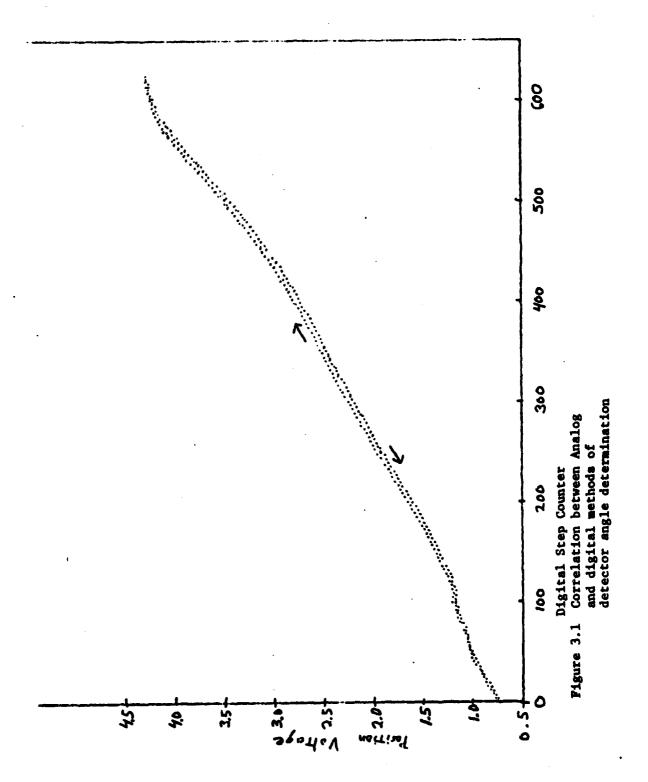


Fig. 1.2 from a comparison of SC2-3, Sc-5 and SC-9 Prepared by M. S. Gussenhoven

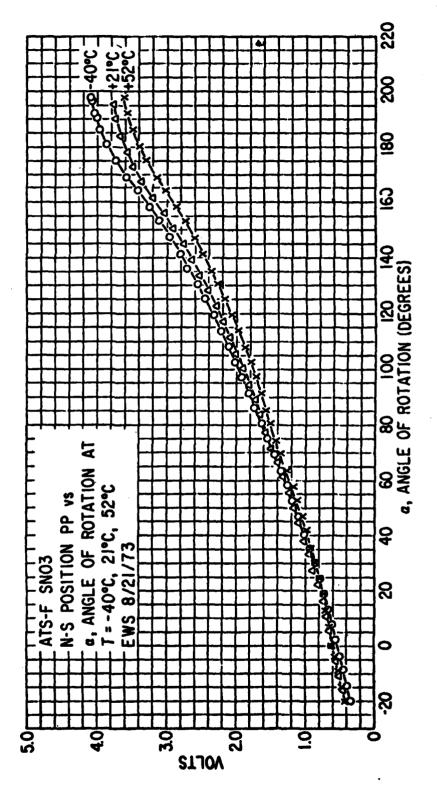


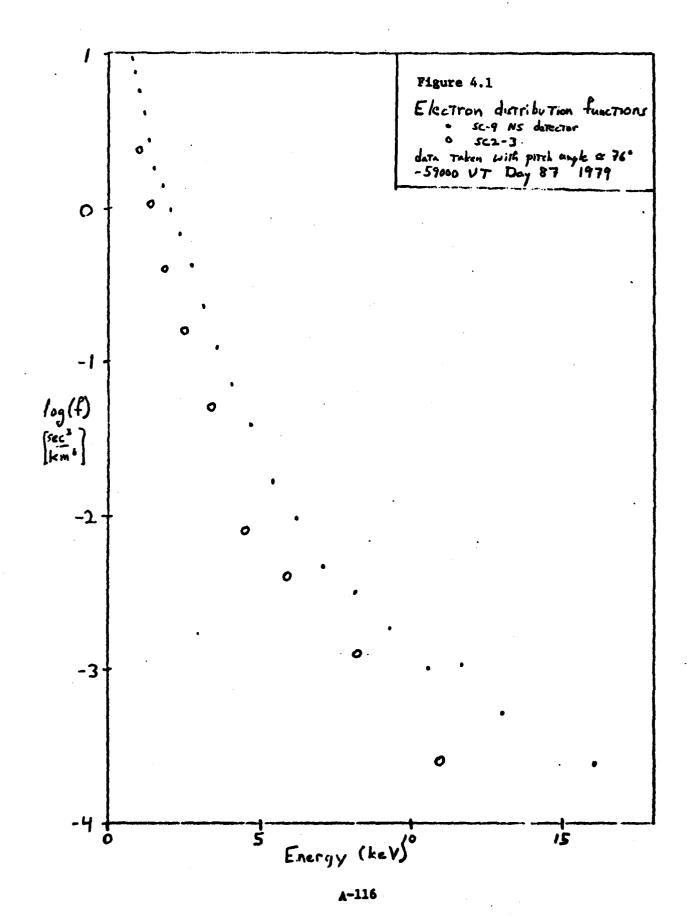


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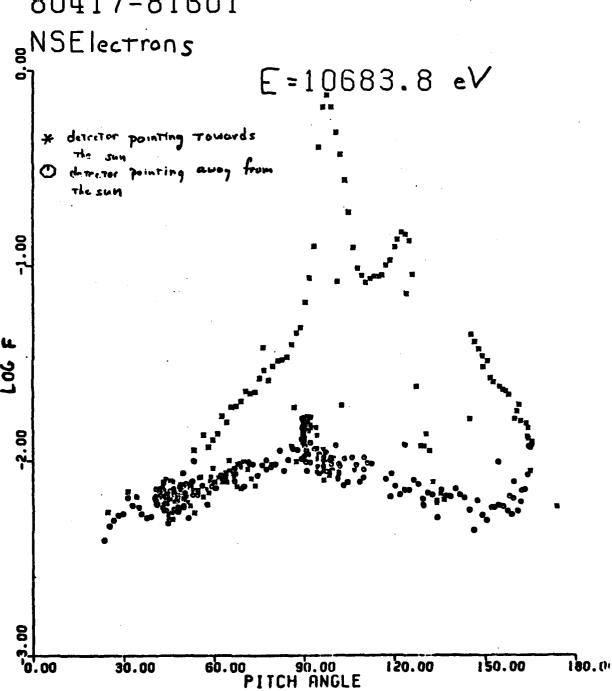


Figure 5.1 Sun Pulse Contaminated Spectrum